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Update on Laser Ablation Technology: Conservation Applications for In-Situ Objects and Architecture within the United States

by Roy Ingraffia and Adam Jenkins for the Architectural Specialty Group

Recent advancements in laser ablation technologies as well as availability of equipment have led to a slow increased use of lasers as a conservation tool within the United States. While this increase in use is promising, there is still a lack of published research on in-situ application by U.S. conservators as it relates to cleaning of objects and architecture.

Laser ablation was first discussed in the *AIC News* in March 2007. Meg Abraham published "Lasers Have Come of Age in the Disciplines of Objects and Architectural Conservation" (32:2, pp. 1 and 12 -14) in which she prepared a concise evaluation of laser technology and its application within the conservation field to-date. Her commentary included an overview of both laser-based analytical tools as well as laser ablation systems used for cleaning. This article will focus primarily on advancements and challenges of the latter, specifically relating to Nd:YAG lasers within objects and architectural conservation in North America, and the state of published work and case studies.

The majority of laser ablation testing and implementation is still taking place outside of North America. European organizations such as the Institute of Electronic Structure and Laser (IESL) - The Foundation for Research and Technology-Hellas (FORTH), Consiglio Nazionale delle Ricerche (CNR), and diverse presenters at the Lasers in the Conservation of Artworks (LACONA) conferences are testing lasers in a variety of configurations (various wavelengths, pulse durations, power, pulse frequencies, etc.) and are publishing their observations. For example, work undertaken at CNR over the past several years has brought a better understanding of the effects of variations in the duration of laser pulses on cultural materials, and ultimately led to the manufacture of commercial fixed optic laser systems that are purpose built for cultural heritage projects. Ongoing research by FORTH on the simultaneous use of two laser wavelengths (IR at 1064nm and UV at 355nm) has resulted in more controlled parameters for cleaning; however, the equipment for practical use is still in development. In addition, proceedings from the biennial LACONA conferences have proved to be a valuable resource for understanding the full scope of laser use throughout the international community. The 11th LACONA Conference took an important step forward by redefining the laser ablation process as a means to "remove ... unwanted layers and coatings" instead of simply a way to "clean." Critical thinking has allowed conservation professionals to develop parameters and establish criteria for what defines successful laser projects and their results.

In addition, a few recent workshops have encouraged the use of laser technology within the U.S. The 43rd Annual AIC Conference in 2015 hosted a two-day workshop



Did you know...?

AIC's blog "Conservators Converse" contains stories about current events, job and internship postings, grants & scholarships, and more! These stories are featured on the AIC website homepage as well as on Facebook. You can "like" AIC's Facebook page to see these stories and participate in discussions.

AIC NEWS

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Deadline for March editorial submissions

(bnaugle@conservation-us.org):

February 1, 2017.

We reserve the right to edit for brevity and clarity.

ADVERTISING

AIC accepts position-available ads only from equal opportunity employers. All position ads must conform to the standards for equal opportunity employment. Internships and Fellowships, Positions Available, and Classified Ads are placed at no cost. Display ad pricing: half page \$255; full page \$395. Deadlines for advertising copy/materials are: February 10, April 10, June 10, August 10, October 10, and December 10. All ads should be submitted to AIC at advertise@conservation-us.org.

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From the Executive Director



New Year's greetings to you all! As introduced by Pam Hatchfield in her November 2016 *AIC News* column, the transformation of the AIC Membership Committee is one of the most important initiatives AIC is embarking on in 2017. The peer-review process and approvals will remain core to the committee, of course, but its members will have the additional benefit of interacting with the two working groups created as part of the expanded Membership Committee. These two working groups, Membership Designation and Equity & Inclusion, will provide research analysis and recommendations for the AIC board that will inform the

Peer-review Committee, which is beginning a re-assessment of its own review process and guidelines. Cathy Hawks is serving as the Coordinating Chair of the Membership Committee to ensure clear communications among the committee/working group members, board liaison Sue Murphy, and AIC members.

At the request of the AIC board, the Membership Designations Working Group, chaired by Stephanie Lussier, will gather views on the meaning of AIC membership categories. It will assess current designations, their function, and what revisions might be made to them. Discussions will focus on how the profession has changed in recent decades and how AIC can best recognize and support its professional members.

Currently, the Membership Designations Working Group is reviewing the history of membership categories, assessing their current status, and creating a charge for review and approval by the AIC board. The charge will include a process for member-wide vetting of ideas proposed by the working group to revise current designations. Following member feedback, the working group will develop a comprehensive recommendation for board review and approval. Once approved by the board, members will be asked to approve any revisions proposed to better serve the profession in a changing environment.

The new Equity & Inclusion Working Group is taking shape under the leadership of Jennifer Hain Teper. Its charge has been approved by the AIC Board of Directors and includes three primary objectives: discovery, assessment, and strategies.

As part of the initial discovery phase, ideas and perspectives from colleagues (including through AIC member forums) and associated professionals are being gathered to evaluate social, cultural, and racial literacy as it relates to the preservation of cultural heritage. The assessment phase will result in a report to the AIC board that will include a review of similar initiatives undertaken by related organizations and disciplines, along with a compilation of models for confronting equity, inclusivity, and diversity within the field.

A "Statement on Equity and Inclusion" will be created to express an understanding of how these issues impact membership, outreach, education, and preservation/conservation initiatives and programs. Underscoring the statement will be AIC's commitment to promoting social and racial literacy within our organization and embracing cultural diversity as an inherent aspect of cultural heritage.

The Equity & Inclusion Working Group will complete its one-year charge by suggesting workshop and session topics for presentation to AIC members, articles for the AIC and FAIC newsletters, and communications on the AIC blog. The goal is to increase member awareness about current equity and inclusion issues and to provide members with a vocabulary for thoughtfully addressing and constructively confronting these issues.

AIC is constantly evolving and maturing, just as is the field itself. The transformation of the AIC Membership Committee is a critical response to our changing world. My best wishes to you for a safe and unifying 2017!

—Eryl P. Wentworth, Executive Director, ewentworth@conservation-us.org

Laser Ablation Technology *continued from front cover*

HOT SPOTS

Areas of increased energy density along the scan pattern of the laser and are particularly associated with oscillating linear scanning optics. The oscillating mirror directing the beam has to stop when it changes direction. As a consequence, the beam spends more time at the ends of the scans; this significantly increases energy density at the margins, causing uneven cleaning and in the worst cases, damage.

cleanLASER has introduced electronic margin shielding, which eliminates the “hot spots” by cutting off the beam just as it reaches the ends of the scans. G.C. Laser Systems has solved this problem by creating a circular beam pattern, which allows the pulsed pattern of spots to continue uninterrupted, inherently preventing “hot spots.” This configuration also allows the beam to hit surfaces from different angles as it completes a full rotation.

on “Laser Cleaning of Artifacts and Architecture” that introduced professionals to the potential uses, benefits, and drawbacks of laser ablation. In October 2016, the University of Pennsylvania Graduate Program in Historic Preservation hosted a similar two-day workshop, which brought together a wide range of professionals actively engaged with laser technology. The workshops included conservators, owner’s representatives, collection managers, architects, masonry contractors, and construction managers, and were designed to expose participants to two of the more common Nd:YAG ablation system types: fixed optic and scanning optic lasers. Representing the two laser types respectively were four different manufacturers: El.En. Lasers, Lynton Lasers, G.C. Laser Systems, and Adapt Laser Systems (the American representatives for cleanLASER). While many laser systems are in use throughout the international community, the laser systems selected for these programs represent equipment currently accessible within the United States either for rent or for purchase. They also represent systems that have been used most frequently in both museum and in-situ applications.

Laser equipment has evolved into a highly sophisticated technology capable of fine adjustments to establish and maintain desired calibrations and criteria for removal of unwanted layers. Within the last several years there have been significant advancements in scanning optic laser systems, especially for Nd-YAG Q-switched laser devices that operate at 1064nm. In addition to more homogenous beam profiles, advances have been made in how the systems scan, virtually eliminating the problem of “hot spots” that have become associated with scanning optic systems (see “Hot Spots”).

Work recently published in the U.S. has primarily focused on laser cleaning of objects in museum settings, which can be defined as controlled or semi-controlled environments. Museum conservation laboratories at noted institutions such as the Philadelphia Museum of Art, University of Pennsylvania Museum of Archaeology & Anthropology, the Museum of Fine Arts, Boston, The Fogg Art Museum, and the Isabella Stewart Gardner Museum in Boston are now invested in laser equipment as a key tool for

removing unwanted layers on works of art. Projects published by some of these institutions have contributed meaningfully to our body of knowledge as it relates to applications and calibration of equipment; however, there is still a considerable need for published work as it relates to in-situ applications, establishing reproducible protocols and efficient, cost-effective cleaning strategies. This is outside practical materials testing and theoretical research focusing on cultural property, which seems to be occurring almost exclusively outside of the U.S.

Some of the more notable U.S. laser projects in the past several years have included the treatment of Cleopatra’s Needle in New York’s Central Park, and treatment of architectural features at both the United States Supreme Court and the United States Capitol Building in Washington, D.C. One of the most encouraging uses of lasers on an architectural scale has been at the West Block of the Canadian Parliament Building in Ottawa, Canada, in which the laser equipment moved from the hands of the conservator into those of the masonry restoration craftworker. This marks a shift from lasers as tools limited to conservators, to tools that have been accepted for use by allied professionals in buildings preservation and restoration practice.

An increase in equipment and use should be reflected in the literature; however, published research over the past 10 years on in-situ applications in the U.S. remains limited to a few key documents: “The Use of Lasers for Cleaning Large Architectural Structures” (Dajnowski, Jenkins, & Lins, 2009, *APTI Bulletin*), and “Considerations on Complex Sequential Treatments of Gypsum Crusts: The Carrara Marble Capitals of the Philadelphia Merchants’ Exchange” (Hall & Matero, 2011, *JAIC*). Laser use has also been the topic of a few master’s theses within the U.S. They include: “An Evaluation of Laser Ablation Cleaning on Surficial Black Crust on Pennsylvania Marble: A Case Study of the Hood Cemetery Gate, Germantown, Philadelphia, PA” (Yan, 2016, University of Pennsylvania), and “Lasers and Conservation in the United States: An Exploration of the Limited Use of Laser Technologies for Cleaning Stone” (Smith, 2010, Columbia University). Notably, Smith attributes the dearth of U.S. research to evidence that European nations support “robust cultural heritage preservation programs as well as inter-European organizations that coordinate funding and research projects” resulting in “further support [for] laser cleaning activity abroad, whereas the U.S. lacks comparable organizational attention” (Smith, 2010, Columbia University).

In-situ work and cleaning on an architectural scale has always presented its own set of unique challenges in terms of controlling atmospheric and environmental conditions (temperature, humidity, weather conditions, etc.) to achieve efficacy. Cleaning on an architectural scale using any cleaning system requires attention to factors such as: cost/availability, safety (for the operator and the public), staging of equipment, and environmental impact (containment). Lasers are no different, and in many ways are better equipped to address these environmental and site-specific challenges.

Equipment cost and availability has long been a stumbling block for including lasers within testing programs. However, within the last year, laser equipment has become more readily available to the conservation community in North America. El.En. Lasers, for instance, has expanded its role in the U.S., and along

with G.C. Lasers Systems and Adapt Lasers are now selling and renting equipment as well as providing training for conservation needs. Lynton Lasers also has a unit in the U.S. that is available for rental and testing. Each of these laser companies has the capacity to work with conservators during the testing phase of a project to determine if a laser is an appropriate tool. Most companies can assist with making equipment available, and some can help train or even provide trained teams to execute projects.

The Laser Institute of America (LIA) outlines laser safety protocols. Although developed for medical and industrial applications, these guidelines have been modified by laser manufacturers to meet the needs of onsite preservation projects. There still exist no official industry standards or guidelines for in-situ conservation or general construction use, a situation complicated by the wide variability in laser types and parameters, as well as the very different working circumstances on each job site. Consequently, training for many applications must be tailored to both site and working conditions. Despite these challenges, there are efforts by both manufacturers and training organizations to develop more applicable safety standards for on-site use.

The environmental impact of laser cleaning is minimal. Since it is essentially a “dry” system, the containment of effluvial runoff that is required for “wet” chemical cleaning is unnecessary, nor

is there any need for clean-up of media as often required when air abrasive techniques are employed. Many laser systems have HEPA vacuum systems with adaptors on the end effector to catch the vaporized material at the point of ablation. These are critical advantages when it comes to reducing the amount of impact on the environment and safety risks to the operator.

Since their introduction to the conservation field in the U.S. more than two decades ago, lasers have proven an effective tool for addressing unwanted layers on a variety of substrates. While laser ablation has seen growth in more controlled museum settings, it has been slow to catch on as a tool for in-situ applications. However, increased in-situ use in recent years, technological advancements, and more readily accessible equipment offer exciting possibilities for future U.S. conservation projects. What is needed now is a commitment of time and resources to provide the critical assessments of work driven by these changes in order to establish shared understanding and knowledge about this technology.

—Roy Ingraffia, Associate AIA, PA AIC, Director of Industry Development and Technical Services International Masonry Institute, ringraffia@imiweb.org, and Adam Jenkins, PA AIC, Owner, Adam Jenkins Conservation Services, LLC, spalted@hotmail.com

AIC News

Elections: 2017 Board of Directors

Slate of 2017 AIC Board Candidates Offered by the AIC Nominating Committee

The AIC Nominating Committee is pleased to present the following slate of candidates for the AIC board of directors for the year 2017.

President (2-year term):
Margaret Holben Ellis

Vice President (2-year term):
Suzanne Davis
Nancy Pollak

Director, Professional Education (3-year term):
Brenna Campbell
Molly Gleeson

Director, Specialty Groups (3-year term):
LeeAnn Gordon
Sarah Melching

The Nominating Committee sincerely thanks those who have agreed to run for office, those who considered running, and all those who offered guidance and helpful suggestions.

Those who will begin second terms in May 2017 include:

Sue Murphy, Secretary (1st term)
Sarah Barack, Treasurer (1st term)
Tom Braun, Director, Committees and Task Forces (1st term)
Brenda Bernier, Director, Communications (1st term)

Call for Nominations from the Membership for Additional Candidates for AIC Board Elections

The AIC Nominating Committee encourages the AIC membership to submit additional nominations for qualified individuals as candidates for the 2017 AIC Board elections.

To facilitate the process, nominations should be submitted in writing, accompanied by:

- a signed, “Willingness-to-Serve” statement (form available from the committee chair)
- a brief biographical sketch (format available from the committee chair)

The AIC Bylaws require that candidates for president and vice president must be Fellows and candidates for director may be Fellows or Professional Associates. Nominees must be members in good standing of AIC and should have prior experience with the functioning of the organization through service on committees, task forces, specialty groups, subgroups, or in other capacities.

The Bylaws require that the Nominating Committee chair receive completed nominations by February 28, 2017 (three months prior to the June 1st AIC Business Meeting in Chicago, IL).

All completed nominations or queries regarding submission of a nomination are to be sent to: Victoria Montana Ryan at acs@artcareservices.com.

Internal Advisory Group Summary Notes to be Posted Online

The Internal Advisory Group (IAG) held a daylong meeting on Friday, November 11, that included AIC volunteer leadership, editors, board members, and AIC and FAIC staff members. During introductions, the Specialty Group (SG) and network leadership raised some of the following priorities: improving communications within groups, creating scholarships for both preprogram interns and members using SG funds, weighing network vs group or committee status, providing more value and information for AIC and SG members, and continuing to connect conservators and allied professionals. Board Chair Pamela Hatchfield discussed the expanded FAIC board and membership committee, topics which are also covered in her letter in the November 2016 *AIC News* and in the letter from Eryl Wentworth in this issue. There were updates on communications, including the publications committee (a new charge being drafted), AIC's editors, social media, and the annual meeting. FAIC's six staff members – up from just two a year and a half ago – described their efforts on programs that intersect with AIC. For other news about what was covered at the IAG meeting, see the *AIC News* survey below, about the Journal in the JAIC News section, FAIC News, and look for the meeting minutes to be posted in the Governance section of our website, under Our Organizations (www.conservation-us.org/governance).

Call for Nominations for Candidates for the AIC Nominating Committee

The Nominating Committee is seeking nominations of qualified individuals as candidates for the Nominating Committee. The committee, composed of three members serving one three-year term each, has one vacant position each year. The 2017 candidate can be either a Professional Associate or Fellow Member of AIC.

Nominations are made to the chair of the Nominating Committee and must be received by February 28, 2017, three months prior to the May Members Business Meeting in Chicago, IL. An electronic vote will be held in conjunction with the votes held for Board member positions. A signed willingness-to-serve statement, available from the Nominating Committee chair, must accompany written nominations.

The Nominating Committee is pleased to discuss any aspect of the nominating and election process with potential candidates and anyone interested in nominating candidates.

—AIC Nominating Committee

Victoria Montana Ryan, acs@artcareservices.com

Jodie Utter, jodieu@cartermuseum.org

Beverly Perkins, beverlyp@centerofthewest.org

AIC News Survey results

A survey about the *AIC News* was sent to members in October 2016 to gauge and assess readership preferences, and to help us figure out how members prefer to receive their organizational and professional news. The survey covered delivery mode, questions about individual columns, and ways that members receive information from other allied organizations.

In summarizing the results, it is important to recognize that respondents represented only about 10% of the total individual membership. Most responses to individual questions were balanced, in a middle range of 45 – 60%; there was often no overwhelmingly majority response to any one question, and some of the responses were hard to interpret. In addition, comments from members were tallied by hand, and these responses suggest interesting trends in readership preferences. The following summary comments can be made:

- Comments from readers indicated that there was a strong preference for the paper printed version of the newsletter. This preference was difficult to ferret out from the questions, but was clearly expressed in the comments.
- Respondents expressed confusion about the difference between the PDF and web version of the newsletter.
- Some respondents had difficulty with the format of the PDF version, such as scrolling through columns, accessing individual items, and using key word search capability.
- There was no interest in publishing an annual paper copy of combined lead articles.
- There was some interest in converting SG and Network columns into a resource that is available outside the format of the *AIC News*.
- There was interest in changing the format for the Continuing Courses and Seminars column.

AIC staff has evaluated the survey results and are interested in pursuing changes in format to facilitate reader preferences. The following changes are being discussed:

- Calculating the cost for individual members to purchase a paper printed copy of the *AIC News*, delivered to a physical address on a bimonthly basis.
- Consolidating the format of the CCS columns to remove SG sections. This will allow for easier scrolling by date and will eliminate the confusion of where to place cross-specialty events.
- Moving the CCS columns and Employment opportunities to a monthly email delivery schedule. Note that these announcements would still appear on the *AIC News* website as well on as the AIC website itself.
- Consider changes to the format of the PDF version of the *AIC News*, such as moving to a single column/left side bar format.
- Consider changes to SG and Network columns, so that news is delivered via individual SG and Network sites.

As these changes are considered and enacted, we welcome your comments! Please contact: Lisa Goldberg, *AIC News* Editor, lgoldberg@stny.rr.com

—The AIC News production staff

Congratulations to the New 2016 Professional Associates and Fellows

Below are listed the Professional Associates and Fellows who were approved by the Membership Committee in 2016. Please join us in congratulating them. Professional Associates and Fellows play an important role in AIC and, by being included in Find a Conservator, enable AIC to provide a valuable service to the public. If you qualify for Professional Associate or Fellow status, please consider applying. The application process is now completely online and is easy to do. If you are already a Professional Associate or Fellow and would like to volunteer to sponsor applicants, let us know by checking in the “Sponsor” box in your profile, or emailing rwinfield@conservation-us.org.

Fellows

Sanchita Balachandran
 Jean Dommermuth
 Elmer Eusman
 Elise Effmann Clifford
 Mary Elizabeth Haude
 Lisa Goldberg
 Paul Mardikian
 Wendy Partridge
 Alan Phenix
 Sarah Reidell
 Carolyn Riccardelli
 Dawn Rogala
 Lisa Young

Professional Associates

Dina Anchin
 Gregory Bailey
 Linsly Boyer
 Genevieve Bieniosek
 Im Chan
 Matthew Clarke
 Mary Coughlin
 Lauren Fair
 Greta Glaser
 Gretchen Guidess
 Saori Lewis
 Matthew Hayes
 Henry Hebert
 Beth Heller
 Margaret Hill-Kipling
 Lauren Horelick
 Stephanie Hulman
 Michael Kassman

Yeonjoo Kim
 Karl Knauer
 Dawn Kriss
 Amanda Malkin
 Gwen Manthey
 Christine McIntyre
 Laura Moeller
 Carlos Moya
 Elizabeth Nunan
 Louise Orsini
 Julie Parker
 Jennifer Parson
 Emily Rainwater
 Veronica Romero-Gianoli
 Hamada Sadek
 Birgit Straehle
 Howard Sutcliffe
 Joelle Wickens
 Abby Zoldowski

Annual Meeting News

Treatment 2017: Chicago and You

Join us for the 45th AIC Annual Meeting in Chicago May 28 to June 2. The theme for the meeting is *Treatment 2017: Innovation in Conservation and Collection Care*. More than 400 abstracts were submitted and the selection process was tough. The program committees worked hard to create the excellent general and specialty sessions, and the sessions are now available on our [website](#). Look forward to some fantastic posters as well; more than 100 were accepted.

The opening general session will take place the morning of Tuesday, May 30, with specialty sessions capping off the afternoon. On Wednesday, May 31, four concurrent general sessions will each address a unique sub-set of treatments:

- Treatment Going Big
- Beyond Treatment
- Treatment: Don't go it alone
- Unique Objects; Unique Treatment

The three-day Annual Meeting is preceded by two days of pre-conference workshops, tours, and pre-sessions on May 28 and 29. We will also be offering some post-conference tours on the evening of June 1 and the morning of June 2. Spend your

Memorial Day holiday in one of America's iconic cities and experience some career-enhancing workshops/sessions and one-of-a-kind tours.

To read the list of workshops, tours, and other pre-and post-session offerings, visit <http://www.conservation-us.org/annual-meeting-2017>. Some workshops and tours sell out quickly, so secure your spot today.

OPENING RECEPTION & SPECIALTY GROUP EVENTS

This year we will gather for a night of fantastic food, great friends, and fabulous art at the opening reception, held at the Art Institute of Chicago on Tuesday, May 30, from 6:30–9:30 p.m. We will be offering private gallery viewings before the reception from 5:30 to 6:30 p.m.

Save some energy for the Specialty Group Receptions on May 31! Find out where your group will be meeting by visiting <http://www.conservation-us.org/annual-meeting-2017/events>.

MEETING LOCATION

This year all sessions (except for tours and some workshops) will be held at the host hotel, the Hyatt Regency Chicago. Conveniently located on Wacker Drive within easy walking

distance of downtown and Magnificent Mile sights, the Hyatt Regency Chicago is a perfect meeting location. We have secured a rate of \$165; reserve your room now at <http://www.conservation-us.org/annual-meeting-2017/accommodations> before the room block fills up.

Chicago has so much to offer; it is almost an embarrassment of cultural riches. It took AIC years to secure a meeting location in Chicago, due to the popularity of the city. Don't miss out, register today!

—Ruth Seyler, Meetings & Advocacy Director,
rseyler@conservation-us.org

FAIC News

FAIC Receives NEH Grant for Life Cycle Analysis Research

FAIC received a \$75,000 grant from the National Endowment for the Humanities (NEH) to conduct research into Life Cycle Analysis (LCA) for collecting institutions. The project, "Planning a Life Cycle Analysis Library of Preventive Conservation Methods," will lay the groundwork for an online LCA library and tool that assesses the environmental and human health impact of sustaining a humanities collection.

At present, professionals must make too many treatment and collection management choices with little or no information about the potentially harmful impacts of those choices. It is difficult to make educated choices among solvents, gels, packing materials, and exhibition and storage approaches because there is so little information comparing materials. "Greenwashing" by product manufacturers can be confusing and misleading, with manufacturers randomly labeling products as "green" or "organic." Professionals have nowhere to turn to answer questions such as:

- When cleaning a surface, one might wonder if a steam-based system using minimal acetone is more sustainable than using only acetone, and consequently larger amounts of the solvent.
- For packing art, is there a system that is actually sustainable, i.e., using soft protection made from recyclable material and/or non-petroleum products?
- Concerning health impact of treatment methods and materials, which solvent or action has a higher health risk?
- For collection environments, which is less carbon intensive and more economically viable: running an HVAC all night or only when the relative humidity and temperature require adjustment?

LCA helps answer those questions and improve decision-making. The International Organization for Standardization (ISO) defines LCA as "a compilation and evaluation of the inputs, outputs and the potential environmental impacts of a product system throughout its life cycle." (ISO 14040:2006). LCA reports result from the data and conclusions gathered during an in-depth exploration of process and materials for economic comparisons, human health indications, and environmental impact assessment.

The project is co-directed by Sarah Nunberg, conservator in private practice, and Sarah Sutton, principal at Sustainable Museums, with the participation of Dr. Matthew Eckelman and

graduate students from Northeastern University. The research team also includes: Michelle Coughlin of the Gibson House Museum, Pamela Hatchfield of the Fine Arts Museum - Boston, Michael Henry of Watson and Henry, and James Reilly of the Image Permanence Institute. Dr. Eric Pourchot will provide FAIC staff guidance and support for the project.

The project investigators will produce three representative LCA reports; document the most prevalent activities, products, and events that are part of collections care and access work in museums and historic sites; produce a beta version of a tool for evaluating LCA; and develop a plan for next steps to create a robust LCA library and online tool. These new resources will allow custodians of cultural heritage to evaluate materials and approaches used to maintain collections, and enhance decision-making for care of all forms of material culture.

The project is scheduled to be completed by July of 2018. Watch for updates on this important research in future issues of *AIC News* and on the FAIC webpages.

FAIC Welcomes New ConsDistList Moderator

Please welcome our new ConsDistList moderator, Scott Devine. He will take over from our interim moderator Matt Morgan, who is still serving as AIC-FAIC's Digital Strategies Advocate. Scott, an AIC Professional Associate, is a rare book conservator and preservation administrator with over 20 years of experience in the conservation field. He holds a Masters of Information Science with an Advanced Certificate in Conservation Studies from the University of Texas at Austin, and received additional training in rare book conservation at the Library of Congress in Washington, D.C., and at the Centro del bel libro in Ascona, Switzerland. His research interests include the history of Italian bookbinding and the politics of preservation in Italy, from antiquity to present day.

Thanks to 2016 Supporters of FAIC

We would like to give our thanks to everyone who contributed recently to the FAIC Winter giving campaign! Our campaign is ongoing, so if you haven't contributed yet to support the many valuable FAIC programs that you cannot live without, please consider making a gift. Recently, a few folks shared thoughts about their favorite programs:

"The most important reason I give to FAIC is because it is a way I can give back to the community. [FAIC's] professional development opportunities, particularly those available for pre-program people, is what I value the most."

—John Childs, AIC Professional Associate

"I am excited every time I see progress being made towards more coordinated efforts in emergencies, and because of this I make a financial commitment to the team each year to help support FAIC in continuing these significant accomplishments."

—Mary Jo Davis, AIC Professional Associate

"I LOVE the C2C webinars... I've recommended them to so many people. As someone working with a very small budget and living in a far-flung area, the possibility of keeping up to date with free online learning is hugely important to me. Thanks for all you do!"

—Dee Stubbs-Lee, AIC Professional Associate

Every little bit helps and goes a long way to helping sustain the

courses, emergency response initiatives, and outreach programs managed by your Foundation. To donate, please visit: www.conservation-us.org/donate.

Melissa Ezelle, FAIC Development Associate, finds support for our programs through fundraising. Please send her any information about potential donors, vendors, or sponsors — your leads are essential! You may also contact Melissa (mezelle@conservation-us.org) with stories of any projects you're working on; she would like to help spread the news about your conservation efforts.

FAIC Receives NEH Grant for Emergency Programs

The National Endowment for the Humanities (NEH) has awarded a two-year grant to FAIC in support of the national "Alliance for Response" (AFR) initiative. Begun in 2003 by Heritage Preservation, AFR aims to connect local cultural heritage institutions with their emergency professionals. FAIC assumed responsibility for the AFR initiative in 2015. The NEH grant will support the efforts of the existing two dozen networks through webinar programming and online resources. It will also help to organize a new AFR network in Washington, D.C., which will serve to protect the wide range of cultural institutions in the nation's capital.

In addition, the grant gives AFR the opportunity to expand its scope by offering regional training opportunities. Existing AFR networks in Miami and Seattle will develop response teams that can provide immediate assistance to the cultural institutions

in those disaster-prone areas. FAIC is grateful for the continued support of the NEH for this signature initiative of our Heritage Emergency Programs.

New FAIC Workshop Offered on the Conservation of Archaeological Iron

Archaeological iron is one of the most problematic materials to come out of the ground as it can develop post-excavation corrosion that can destroy an artifact in a relatively short period of time. Iron objects not only tell the story of technological advancement of humankind, but also provide a window into everyday life of cultures as diverse as Iron Age villages in the Near East, Norse landing sites in the New World, and early Native American settlements. These "bits of iron" can tell us about transportation, housing, agriculture, religion, warfare, diet, and many other aspects of cultures that may have otherwise disappeared. Training conservators how to approach these surprisingly fragile objects will help ensure that these important pieces of evidence will continue to be available for study in the future.

Join FAIC's workshop "The Conservation of Archaeological Iron" to gain hands-on experience with mechanical cleaning and x-radiography of archaeological iron artifacts from excavations from Colonial Williamsburg. This four-day workshop will be offered twice in 2017: April 18-21 and April 24-27. Valentin Boissonnas will lead the course. He is a lecturer in conservation of metal heritage at the Haute Ecole Arc, Neuchâtel, as well as a freelance conservator for archaeological, ethnographic, and

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The program is designed for mid-career, practicing conservators. Participants may be selected based on training, experience, balance of institutional and private practice conservators, balance of conservation specialty areas, number of registrants from a single organization, and geography. Preference will be given to AIC Professional Associate and Fellow members. Review will begin January 20, and continue until the workshops are filled. Notifications are expected by February 1.

FAIC/NEH Individual Professional Development Scholarships are available to eligible workshop participants. With funding from the National Endowment for the Humanities, FAIC offers scholarships up to \$1,000 to help defray professional development costs for individual members of AIC who are U.S. residents. Applications for funding are due February 15.

For more information on this workshop, visit: www.conservation-us.org/archaeological-iron.

Photographic Chemistry Online Self-study Course Offered

Explore key elements of photographic chemistry that are essential to understanding the nature of silver-based analog photographs, their creation, and their deterioration mechanisms. These topics are critical for photograph conservators, but also of interest to photographers, artists, collectors, and other photography enthusiasts.

This series of online self-study modules includes video lectures and quizzes on specific topics in the chemistry of photography. Each section contains about 10–20 units and each unit includes a video lecture of 3–10 minutes in length and a brief self-assessment quiz. The cost of the course includes access to a discussion forum where participants can ask an expert questions about the content. Study at your own pace and repeat sections as needed!

The following sections will be open to participants through March 17. Registrants will have access to all units in the sections they paid for during this time. Participants can access the modules on their own schedule and work at their own pace. Participants can register at any time before or during this period.

- Section 1: Light Sensitivity of Silver Salts
- Section 2: The Latent Image
- Section 3: Chemical and Spectral Sensitization

The fee for each section is \$19, which provides access to unlimited viewing of the online video lectures, access to unit quizzes and the discussion forum. Visit www.conservation-us.org/photochem for more details and registration information.

Upcoming FAIC Grant and Scholarship Application Deadlines

Guidelines, links to application forms, and tips for submitting applications and letters of support, are available at www.conservation-us.org/grants. All materials must be received by the published deadlines for consideration. Many of the FAIC's grant and scholarship applications have transitioned to a new online application form. Please carefully read instructions for each application you wish to submit, as procedures are being updated to improve the application process.

APPLICATIONS DUE ON JANUARY 22, 2017

Kress Conservation Fellowships are available to collecting institutions and conservation facilities sponsoring supervised internships in advanced conservation. Applicants may identify a Fellow or select a Fellow at a later date. Fellows must have completed a Master's-level degree in conservation prior to beginning the Fellowship. Residency requirements also apply (see guidelines for eligibility). Fellowships of \$32,000 are awarded for one-year post-graduate internships. At least \$27,000 must be allocated as a fellowship stipend; up to \$5,000 may be used toward host institution administrative costs, benefits for the Fellow, and other direct costs of hosting the Fellow. Preference will be given to applications that propose a stipend greater than \$27,000 for the Fellow.

APPLICATIONS DUE ON FEBRUARY 1, 2017

Carolyn Horton Grants are available to book and paper conservators who are members of the AIC Book and Paper specialty group. Scholarships typically range from \$500 to \$1,000. Funds may help defray costs for attending meetings, seminars, workshops, or to conduct research or special projects.

"Take A Chance" Grants are available to current members of AIC. These grants of \$1,000 are awarded to help defray costs for innovative conservation research or projects that may not otherwise be funded.

Christa Gaehde Grants are available to current members of AIC. Projects must promote study and research in the conservation of art on paper and may involve individual study, purchase of materials for research projects attendance at workshops, conferences, or other events. Scholarships typically range from \$500 to \$1,000.

APPLICATIONS DUE ON FEBRUARY 15, 2017

FAIC Individual Professional Development Scholarships offer support of up to \$1,000 to help defray professional development costs for AIC Fellows or Professional Associate members.

FAIC/Tru Vue® International Professional Development Scholarships help conservation professionals cover up to \$1,500 in costs for attending international professional development events, such as workshops, conferences, and symposia. Key criteria of the award include demonstration of the learning that would occur, its applicability to individual's professional development goals, and dissemination of that learning to others.

FAIC/NEH Individual Professional Development Scholarships of up to \$1,000 are available to AIC members who are U.S. citizens or residents to support registration and/or attendance at upcoming FAIC workshops that are supported by a grant from the National Endowment for the Humanities. Some of these FAIC workshops include: "Illumination of Collections," "Cleaning and Conductivity," "Archaeological Iron," "Approaches to Contemporary Murals," and "Salted Paper Prints Symposium and Workshop." Visit www.conservation-us.org/current-courses for more information on these programs.

FAIC/Mellon Photograph Workshop Professional Development Scholarships are available to international attendees of the upcoming FAIC Collaborative Workshops in Photograph Conservation: "Photographic Chemistry" and "Salted Paper Prints Symposium and Workshop." The awards up to \$1,000 help defray expenses related to attendance, plus waive

registration fees. Visit www.conservation-us.org/current-courses for more information on these programs.

FAIC Lecture Grants are granted up to \$500 for the purpose of presenting public lectures to help advance public awareness of conservation.

FAIC Regional Angels Grants offer up to \$1,000 toward the development and implementation of volunteer projects that bring teams of conservators to work with collections in need of care around the country.

FAIC Workshop Development Grants provides up to \$1,000 to help defray costs for development and presentation of regional workshops for conservators.

FAIC Seeks Reviewers for Samuel H. Kress Conservation Fellowship

FAIC is managing the selection and award process for the Samuel H. Kress Conservation Fellowships. The program aims to provide a variety of professional development experiences to young conservation professionals.

The next application deadline for Fellowships is January 22, 2017, with review to follow. Application guidelines are available on the AIC/FAIC website at www.conservation-us.org/grants.

FAIC thanks the many AIC members who have volunteered to review Fellowship applications. If you are interested in serving as a reviewer, please send an email with your contact information, specialty area(s), and institutional affiliation (if any) to faicgrants@conservation-us.org.

JAIC News

Is JAIC's Impact Factor Really 'Zero'?

JAIC articles have been and are consistently cited in no, low, or high Impact Factor (IF) journals from across many disciplines, yet the Journal is not included in the ISI-Thomson Reuter's Journal Citation Reports (JCR) list. As such, we currently have no IF and, therefore, these citations are not counted towards an IF, thus decreasing the scope and standing of our journal's use in scholarly work.

The IF is a number, which is calculated by dividing the number of citations in a given JCR year by the total number of articles published in the two preceding years. The citing works may be articles published in the same journal. Fortunately—or unfortunately—IF is used to compare different journals within a certain field. For example, the IF numbers for other journals in our field, such as *Journal of Cultural Heritage and Studies in Conservation*, were 1.53 and 0.32, respectively for 2015.

The IF was devised by Eugene Garfield, founder of the Institute for Scientific Information, and it is explained in his article in the *Journal of the American Medical Association* [JAMA 295 (2006) 90–93]. For scientific journals, the IF has an enormous (but controversial) influence on the way published research is perceived and evaluated. Nowadays, many authors choose specific journals as their publication venues based on which ones have the highest IF in their particular area. The IF is also often mistakenly used to compare researchers and quality of

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JAIC Submissions Requested via IAG Meeting

Julio del Hoyo-Meléndez, JAIC Editor, noted at IAG that the editorial board has been discussing its diversification and expansion, while considering an international emphasis so that JAIC can apply for an impact factor rating. Representatives at IAG discussed ways of facilitating support to conservators in order to help ease the process of preparing submissions to the journal. Briefly, the following items were considered in discussing how submissions are evaluated:

- JAIC is seeking original or innovative work.
- The “why” is as important as the “how” when you are sharing your treatment techniques with other conservators.
- JAIC is interested in articles that explore the critical thinking process or approach, and the article doesn’t necessarily need to include a lot of technical data that is time consuming to produce.
- Potential authors can always contact a member of the editorial board to discuss ideas and approach.

A pre-session at the Annual Meeting is planned to clarify what JAIC is looking for in article submissions and increase high quality submissions. Please send your questions and comments to Julio or any other JAIC editorial board member, or to [Bonnie Naugle](mailto:Bonnie.Naugle@muzeum.krakow.pl), AIC Communications & Membership Director.

research. Author metrics have also been developed to measure the productivity and citation impact of a particular scholar’s publications. Examples of these include Google Scholar citation counts and the Hirsch index, also known as the h-index. Although related, the topic of citation/impact factors for individual authors is controversial, and is separate from the widely-accepted use of JCR metrics. A large body of published research criticizes the misuse of the IF; a web search on IF returns many results on this topic. An interesting initiative describing the measurement and evaluation of research output can be found in the San Francisco Declaration on Research Assessment (DORA) from 2012 (<http://www.ascb.org/dora/>).

Although JAIC meets most of the requirements, it is important to make sure that all standards are fulfilled before we can apply for ISI-Thomson Reuters’ impact factor. The main requirements are:

- Basic Publishing Standards – The journal must be published on time and must be peer-reviewed.
- Editorial Content – The Journal needs to have unique features and be distinguished from other journals in the field.
- International Focus – Reviewers look for international diversity among the journal’s contributing authors, editors, and editorial advisory board members at a level appropriate for the journal’s target audience.
- Citation Analysis – ISI uses this to determine the importance and influence of a journal in the surrounding literature of its subject. They also look at the citation history of contributing authors, and editorial board members to determine if the journal is able to attract established scholars in the field of study.

Once we make sure that we have fully met these requirements, we can send our application for Impact Factor to Thomson Reuters. The process involves (1) establishing an ongoing,

complimentary subscription to the title for Thomson Reuters, (2) sending them the most current issue of the journal, and (3) forwarding each subsequent issue as soon as each is published.

I encourage the AIC community to learn more about the IF and to understand the debate about measurement and evaluation of scholarly publications as we consider whether or not inclusion on JCR’s list would be beneficial for the Journal and for AIC.

—Julio del Hoyo-Meléndez, JAIC Editor-in-Chief,
jdelhoyo@muzeum.krakow.pl

Allied Organizations



The American Industrial Hygiene Association, Washington Conservation Guild, and the Smithsonian Co-host Collaborative Professional Development Seminar

On November 8, 2016, the Potomac Section American Industrial Hygiene Association (AIHA); the Smithsonian’s Office of Safety, Health, and Environmental Management (OSHEM); and the Washington Conservation Guild (WCG), collaborated to present a professional development seminar. The fabulous venue, sponsored by the Lunder Conservation Center at the Smithsonian American Art Museum, was the perfect setting for the daylong session “Control of Health and Safety Hazards in Museums and Collection Care.”

Touching on realistic and practical current events; the scientific research studies (e.g., pesticide exposure assessment in anthropology collections, innovative mold testing in archives, and mercury remediation in mineral science storage) were co-presented by both conservators and industrial hygienists. Other technical discussions included fire protection challenges with fluid collection storage areas, and an OSHA Small Business presentation on resources available to small historic houses and cultural sites.

Executive Leadership from OSHEM (Richard Wright Jr., CIH, Director), WCG (Jane Klinger, President), AIHA (Dan Anna, CIH, President; Larry Sloane, CEO), and AIC (Eryl Wentworth, Executive Director), gave brief remarks urging attendees to work together across professional disciplines to conduct risk assessments and develop remediation strategies for the museum occupations. AIHA has recently entered an agreement to work with AIC to not only increase its members’ awareness of the health risks faced by this diverse workforce (from private conservators and staff of historic houses), but also to make AIC members aware of the

industrial hygiene resources available to ensure proper response to health and safety concerns. AIHA's new CEO, Larry Sloane, was present to affirm AIHA's commitment to this program. OSHM is already a part of a long-standing Smithsonian collaboration with AIC via participation in AIC Annual Conferences, national symposia, and publications related to the museum environment.

The goals of cross-education and networking for the event were clearly achieved, with approximately 100 professionals from conservator/collection care and health, safety, and fire protection occupations. The attendees represented 15 museums and cultural institutions, 4 universities, 6 federal agencies, and 12 private industries. Feedback was overwhelmingly positive with many comments encouraging another future event, and suggestions for topics that would be of interest to the joint community of professionals. Attendees were especially appreciative of the collaborative environment, the ability to network and discuss topics with experts and colleagues, the venue, and the food!

If you are interested in collaborating with local health and safety organization sections to present an educational seminar on conservation/collection care safety concerns, please contact Kathryn Makos, CIH, former AIC H&S Committee Chair, kamakos@verizon.net.

Health & Safety Committee

Portable Fume Extractors: Survey Summary

In October, the Health & Safety Committee released a survey asking AIC members about their portable fume extractors. The goals of the survey were to aid other conservators in their research and future purchases of the machines, and to address the health and safety concerns regarding these units. Unfortunately, the response to the survey was extremely small, making our results anecdotal rather than statistically valid. Below are the results from the survey thus far. Though the response rate is small, the committee wants to share the information we have collected up to now, because there has been expressed interest in the results. In addition, those who have filled out the survey gave useful details about specific models that will aid their colleagues in making decisions when purchasing these machines.

The Health & Safety Committee is planning to write a comprehensive guide on portable fume extractors. It will address the technical aspects of the units as well as some of the issues (such as changing the filters). The guide will also include survey results, which we hope will be more extensive by then. If you already own one of these, it would be extremely helpful to the committee and your colleagues if you fill out the survey (www.survey-monkey.com/r/5GWBS6P)—especially if you don't own one of the three brands discussed specifically in this article. Thank you to those who already took the time to fill out the survey!

The majority of the respondents to the survey purchased units from three major manufacturers that are popular among conservators: Extract All, Nederman and Sentry Air. The following is a summary of the results of the survey focusing on these companies, conservator reviews of the specific models, and commentary from manufacturer representatives. Overall, while many people had critiques about different features, 100% stated

Association of Registrars and Collections Specialists Update

ARCS (Association of Registrars and Collections Specialists) is very pleased to announce its upcoming 3rd Biennial Conference. Get your passports ready to meet us this year, November 3-5, 2017, in beautiful Vancouver, British Columbia, Canada. Session proposals of various lengths and formats (creative formats encouraged!) are accepted by February 27, 2017, but if you have a burning and timely issue the conference committee won't refuse to review it! Proposal guidelines and proposal form are found at: www.arcsinfo.org/programs/2017-vancouver-conference/call-for-papers.

Also, mark your calendar as online registration begins March 20, 2017. You may look at the topics from past conferences to get an idea of the scope of topics presented—they are posted on the site as well. The 2015 program in New Orleans is available at www.arcsinfo.org/content/documents/2015preliminary_conf8-3-15.pdf, and the 2013 program in Chicago can be found at: www.arcsinfo.org/content/documents/2013arcs_program_final.pdf.

—Robin Bauer Kilgo, ARCS,
Social Media/Membership Manager

they would purchase their model again.

Eighteen people responded to the survey. Of those 18, twelve conservators had what we might consider traditional portable fume extractors—with filters that allow the contaminated air to be filtered and released back into the workspace, and one or two trunks or wings. Three respondents had ductless fume hoods—similar but larger than the traditional fume extractors with one or two trunks. One respondent had a unit that vented contaminated air directly to the outside. Two units were not purchased for organic solvent fume extraction. One extractor was for mold/particulate only, and another extractor was specifically for welding.

All the respondents ranked the things most important to them when researching their purchase. The average top four were: 1. Price, 2. Portability, 3. Ability to capture specific contaminants, and 4. Airflow. Other popular choices in this category were noise, other costs (maintenance/filters), and recommendations/reviews. Of less importance to the respondents were good technical support, specific features, and past experience.

TRADITIONAL PORTABLE FUME EXTRACTORS

Eight out of the 18 respondents owned Extract All/Air Impurities Removal Systems. Four different models were reviewed. Four respondents owned the 987 series, two respondents owned the 981 series (figure 1), one respondent owned the S-DTL-1, while another respondent described their unit as a “WH 350W Air Cleaning System with Arms”—it is not clear which model this is. According to Air Impurities Removal Systems Technical



Image courtesy of A.I.R. Systems Inc.

Fig. 1. Extract All Series 981

Representative, Joe Baldus, all three of these models have the same motor. The DTL-1 and the 987 draw the contaminated air through the filters, and then through the motor. The 981 draws the air through the motor and then through the filters, which could make it a slight fire hazard. However, because of the speed of the air, this is extremely unlikely, and no incidents have been reported.

The DTL-1 and the 987 have more options for filter combinations, but the filters are slightly more expensive. All models allow the filters to be refilled with fresh charcoal (rather than buying a pricey new filter). The activated charcoal supplier they purchase their carbon from says it has an 8-month shelf life; however, Baldus has many clients who have reportedly used their charcoal for longer periods of time. According to Baldus, activated charcoal can hold up to a third of its own weight in contaminants, so some people weigh their filter upon receipt and periodically to monitor the condition of the carbon. Nevertheless, Baldus says the majority of his clients simply use the smell test. The AIC Health & Safety committee does not recommend this method, as it means you are already exposed to the hazard before you realize it.

One respondent who owns a 981 said, "I haven't changed a filter yet, since I've had it less than a year, but putting the filter in was pretty easy, so I expect changing it to be pretty straight forward. I was looking into fume hoods and other portable extraction units—based on the usage form that I had filled out—I was told to exchange the filter once a year. That replacement plan seemed easier than trying to track hours of usage, especially because the filter can pick up pollutants even when the unit is not on. The tech felt that this plan was safer to not re-emit pollutants into the air once the filters became saturated."

When purchasing their fume extractors, the most important factors for were: portability, ability to capture specific contaminants, and prices. Note that price evaluations were tied to reviews/recommendations. Regarding "Other costs," one respondent said, "The accessories were expensive. I feel like every add-on was another couple hundred dollars. Based on the info I got about the filters (which were somewhat pricey initially), I could probably replace just the loose charcoal instead of buying their proprietary filter."

Once they purchased and started using their extractors, we asked respondents to rate aspects or features of their Extract-All units. Table 1 summarizes the results.

The most varied responses were regarding the noise of the

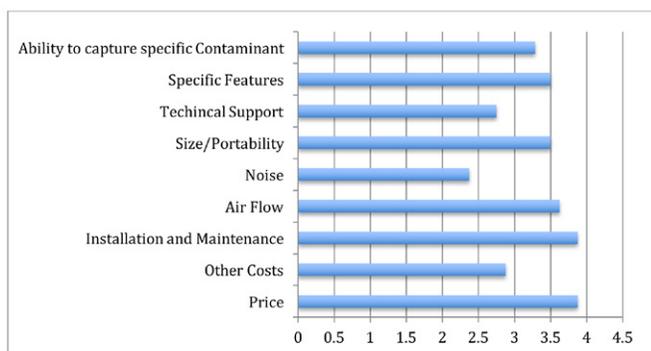


Table 1. Extract-All ranking: 4=excellent, 3=good, 2=fair, 1=poor

units. The S-987 series has a noise muffler that can be purchased in addition to the unit itself. A couple of respondents noted that the extractor was quite loud but the muffler made a difference. One respondent said of the filter, "The muffler was part of the package from Extract-All, so it's part of the unit, bolted on by them when they put together my order. It's a triangular shaped 'flange' section attached at the lower edge that only sticks out about 3" from the bottom edge on that side. So, while it was an additional charge, I don't think it was that much, maybe around \$100. Since the sales representative said it lowered the volume I just went with it, and I think it's totally worth it since I've used it where other people are working such as in government offices. Also, the noise level is very low when the rheostat is turned to lower suction and increases when the suction is increased." The respondents rated the noise as good. Those with the S-981 series rated the noise as fair (2) or poor (1), and it does not have an option of a muffler. The noise level of the DTL-1 unit was rated good (3).

Two respondents had Nederman models: the Fume Cart and the RFE200 PKR. It appears the latter model is no longer available from the manufacturer. When purchasing their extractors, their top three priorities were portability, other costs, and ability to capture specific contaminants.



Fig. 2. Nederman Fume Cart

Because one of the units is no longer available, this discussion will focus on the Nederman Fume Cart (fig. 2). The respondent generally gave the unit good (3 on the other charts) ratings. It received excellent ratings (4) for Specific features and Ability to capture specific contaminants. It received a poor (1) rating for noise. A note by the respondent said, "this extractor is noisy, so its use during museum open hours is restricted." In addition, the filters are expensive to change as they range from \$600-\$700 per unit. The respondent used a half-face respirator in addition to using the extractor.

Two respondents had extractors made by Sentry Air. One was a Winged Sentry with Lid SS-200-WSL (Fig. 3). The other was the SS-300-FS with a single portable arm (Fig. 4). Luke Turner, Sentry Air Technical Representative, indicated that both models have the same motors, but the main difference is their application.



Fig. 3. Sentry Air Winged Sentry with Lid

One works more like a fume hood, while the other has trunks. The unit with the trunks can be purchased with one, two, or four trunks. The greater number of trunks, the lower the capture velocity at each outlet. For a two-trunk system, the capture velocity is half that with only one

trunk (see Table 2).

Like the Extract All units, the filters can either be refilled with fresh charcoal or purchased new. When questioned about the filter change-out schedule, Turner mentioned the existence of break-through indicators for ductless fume hoods, which are likely more sensitive than using the smell test. They are manufactured by Chemteq (www.chemteq.net) and are solvent specific.

Half of the respondents use their unit with nothing added to building ventilation; 50% monitor the need to change the filter, while the rest follow manufacturer specifications regarding filter change-out schedules.



Fig. 4. Sentry Air SS-300-FS

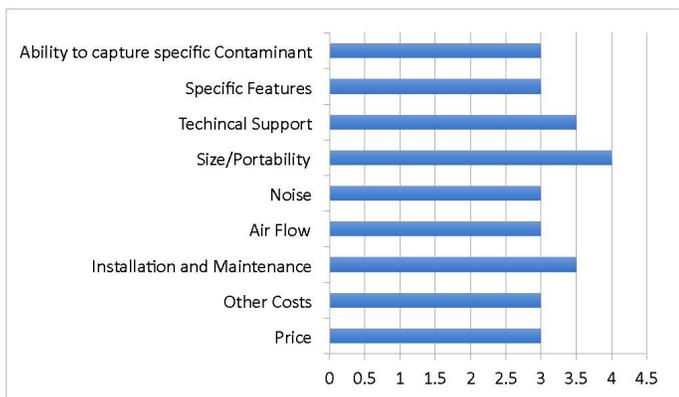


Table 2. Sentry Air ranking scale: 4=excellent, 3=good, 2=fair, 1=poor.

OTHER EXTRACTORS

Three respondents had ductless fume hoods. One was made by West Lab; the author could not find this unit or manufacturer available on the internet. The second was the Labcono Fume Absorber, and the third was the Purair 24” Ductless Fumehood by Air Science. All three respondents rated their extractors with good or excellent marks for the most part, but these are outside the scope of this article. One respondent changed the filter on a regular schedule regardless of use. While this is certainly the most expensive method, it is also the safest.

One respondent had an extractor fan made by Global Industrial (WG246340) that is installed in the window and extracted directly to the outside.

Another respondent was using a portable fume extractor for welding. Welding requires several different features than cleaning with solvents, mold, or particulates. The unit they use is the DiversiTech FRED-ICS, a somewhat large unit.

Overall, the results of the survey were encouraging. Respondents indicated what types of activities they are using fume extractors for and what other types of respiratory protection they are using. The more information the committee can gather from users, the more information we can provide on safe use. If you would like to provide more information about a fume

extractor you have purchased, or have questions you would like addressed in our forthcoming guide, please complete the survey (<https://www.surveymonkey.com/r/5GWBS6P>) or contact HealthandSafety@conservation-us.org.

Have a question about health and safety in your conservation work?
Email healthandsafety@conservation-us.org.

People

Lesley Day is currently the Kress Foundation Conservation Fellow at the Shelburne Museum, focusing on the research and conservation of the museum’s comprehensive collection of water-fowl decoys. Lesley graduated from the UCLA/Getty Master’s Program in the Conservation of Archaeological and Ethnographic Materials in 2016, after third year internships at the American Museum of Natural History, New York, and the Hibulb Cultural Center in Tulalip, Washington. She can be reached at lmirling@shelburnemuseum.org.

Julio M. del Hoyo-Meléndez is now Head of Laboratory and Head of the National Research Center for Cultural Heritage, both based at the National Museum in Krakow. In 2011, he joined the Laboratory of Analysis and Non-Destructive Investigation of Heritage Objects at the National Museum in Krakow, Poland, as a Research Scientist. He holds a PhD in science and conservation of cultural heritage from the Department of Conservation and Restoration of Cultural Heritage of the Polytechnic University of Valencia, Spain. Julio is also the Editor-in-Chief of the *Journal of the American Institute for Conservation*, a position he has held since November 2014.

Susanne Grieve has recently relocated to New Zealand. Previously she served as Director of Conservation at East Carolina University in North Carolina. She is the Principal for Global Artifact Preservation Services, LLC (US) and HPFS Solutions (NZ) and is a PhD Candidate at Victoria University, Wellington, in the Museum and Heritage Studies Programme.

Kelli Piotrowski has joined the staff of the Weissman Preservation Center, the special collections unit of Preservation Services, at Harvard Library as Special Collections Conservator. She first came to the Weissman Preservation Center as a Kress Fellow in 2013, which was followed by a two-year term position as Projects Conservator for Special Collections. She holds a Master of Art Conservation from Queen’s University, and a Master of Library and Information Science from Queens College, City University of New York.

In Memoriam

Clifford Craine (1942–2016)

It is with a heavy heart that I write of the death of Clifford Craine in November after a protracted illness.

Born in Detroit, Michigan, Cliff received both his bachelor's and master's degrees from Wayne State University, majoring first in philosophy and then in humanities. Thinking he might want to go into medicine, Cliff took organic chemistry, which developed into an ongoing interest in materials and their composition. He began his conservation career volunteering in the Conservation Sciences Laboratory of the Detroit Institute of Arts, where he eventually became an apprentice. His mentor, Mary Lou White, left for Harvard's Fogg Art Museum, and in 1977 Cliff followed her to the Fogg to do a one-year internship, and then became Assistant Conservator. He also served as an intern at the Massachusetts Institute of Technology's Center for Materials Research in 1978. He became the Fogg's Head of Objects Conservation in 1980 and remained there until 1983, when he formed a private conservation partnership with John Dennis (Dennis and Craine, Associates) in Cambridge, Massachusetts. After John moved to the Dallas Museum of Art in 1989, Clifford reorganized the firm into Daedalus, Inc. He served as its president until he passed the business on to his son Joshua Craine, who had been working with him for many years.

Cliff joined the American Institute for Conservation in 1975 and had been a Fellow since 1989. He was active in the Objects Specialty Group, and in 1992 delivered the public address at the 20th Annual Meeting of the AIC in Buffalo, New York. Other professional association memberships included the International Institute for Conservation and the Association for Preservation Technology. He was instrumental in the launching the careers of many young conservators, both by training apprentices at the Fogg and by taking on pre-program and graduate interns at Dennis and Craine, and then at Daedalus, Inc. As a son of first generation immigrant parents, Cliff made sure to take on recent arrivals from lands as disparate as Israel, Poland, Russia, and Italy, giving them their first opportunity to become established in the American conservation scene. He was generous with his time and throughout his life he was there for a lot of people when they needed him.

Cliff's clients included many institutions, both public and private, such as the City of Boston, the Toledo Museum of Art, The List Visual Art Center at MIT, and The Boston Athenaeum. His relationships with his clients were long-lasting and deep. His treatment of Boston's Shaw Memorial in the late 1970s was a watershed moment for the conservation of outdoor sculpture in the United States, and for many decades he maintained the monument gratis. It was only fitting that he was later selected to treat the original plaster model now on display in the National Gallery in Washington, D.C. An astute businessman, Cliff had a special gift for making sure the client always made "the right decision" about the course of treatment. Dr. Barbara Wolanin, former Curator for the Architect of the Capitol in Washington, D.C., who managed contracts with Clifford for 30 years, writes:

"Clifford Craine was one of the conservators I most highly respected and enjoyed working with over the thirty

years managing art conservation projects. Clifford was always thoughtful about his work. While confident, he was also open to new ideas. He engaged in scientific studies and was open to trying new techniques and materials, working to advance the sculpture conservation field. His ethic was to "do no harm" and to favor the least invasive methods while placing high priority on the aesthetic outcome. He was proud to do follow-up maintenance work, knowing that it was as important as the initial restoration ... The good condition today of the art of the Capitol and on Capitol Hill owes much to his efforts."

A deeply thoughtful person, Cliff saw conservation as an extension of philosophy, which informed his approach to conservation and his relationships with those with whom he worked. Susan Linn, Cliff's wife of 36 years, affectionately recalls, "One thing I think is amazing about Cliff is that, without knowing it, he trained to be a conservator his whole life. I just honestly can't think of a profession to which he was more, inadvertently, suited."

A mentor to many and a professional who had a positive impact on so many monuments and sculptures in parks, museums, and public buildings, Cliff will be sorely missed. Clifford Craine is survived by his wife Susan Linn, his son Joshua Craine, and his daughter Sasha Linn Craine. Donations in Clifford's name may be made to Seeds of Peace, 370 Lexington Ave., Suite 1201, NY, NY 10017, www.seedsofpeace.org.

—*Kent Severson, Conservator of Collections, Shangri La, Doris Duke Foundation for Islamic Art, 4055 Papu Circle, Honolulu, Hawaii 96816, kseverson@ddcf.org*

Worth Noting

Garman Family Gives Buffalo State Art Conservation Department \$4 Million

Buffalo State College has received a \$4 million gift from the Richard E. and Patricia H. Garman family of Western New York to support the college's Art Conservation Department. The family's gift marks the largest one-time gift to Buffalo State and will result in continuous support for the students who enter the art conservation graduate program, one of only four such programs in the country.

"This magnanimous donation is transformational for it further strengthens the department's firm foundation established by previous directors, faculty and alumni, and makes our future really bright," said Patrick Ravines, director of the Art Conservation Department. "The gift will allow us to offer fellowships to the most talented individuals across the country interested in pursuing art conservation careers. It also will enable us to provide exceptional faculty and outstanding learning opportunities for our students. We are extremely grateful to the Garmans."

Richard Garman is the former president and CEO of Buffalo Crushed Stone and ABC Paving Company. In the past he served as chairman of the board for the Buffalo Niagara Partnership and president of the Associated General Contractors of New York State. Patricia Garman, who passed away in January 2014, taught psychiatric nursing at D'Youville College and operated a private practice. She also was recognized as a leader by many cultural and community organizations. The couple has three grown daughters

who live in East Aurora, New York.

The college will rename the department the Patricia and Richard Garman Art Conservation Department, pending official approval by the State University of New York (SUNY) Board of Trustees and the Buffalo State College Council.

The Garman gift completes a challenge grant established by the Andrew W. Mellon Foundation. In the summer of 2014, the foundation awarded the art conservation program with a \$1.25 million challenge grant, which required the college to raise an additional \$750,000 by June 2017.

Founded in 1970, the Art Conservation Department currently has seven full-time faculty members who specialize in the areas of paintings, historical objects, textiles, ceramics, photographs, rare books, manuscripts, and maps. The department is recognized internationally as a center of excellence in the conservation of fine art, cultural heritage, and historic objects.

Library Invites Proposals for DeGolyer Bookbinding Competition

The 2018 Helen Warren DeGolyer Bookbinding Competition will take place at the Bridwell Library, Perkins School of Theology, Southern Methodist University. American bookbinders are invited to propose a design binding for volume IV of *The English Bible*, the Apocrypha, printed by the Doves Press in 1904, and to submit a completed binding of any work as an example of techniques they propose to use. Competition winners will be announced at the opening of the Helen Warren DeGolyer Exhibition for American Bookbinding on June 8, 2018.

- Apocrypha, volume IV, from *The English Bible Containing the Old Testament & the New*. Hammersmith: Doves Press, 1903–1905. Originally issued in five volumes, this set is lacking volume I.
- Volume II, Second Samuel through Song of Solomon. Bound by Hugo Peller, 1986.
- Volume III, Isaiah through Malachai. Bound by Don Etherington, 1988.
- Volume V, The New Testament. Bound by Courtney Sheehan, 1986.

The Bridwell Library collection includes two complete sets of the Doves Press Bible printed on paper in addition to this incomplete set, and one of only two sets ever printed on vellum. The vellum set was once owned by Sir Emery Walker, and is bound by Katharine Adams.

Please visit the website for more details about the competition: <https://www.smu.edu/Bridwell/About/DeGolyer/DegolyerBookbindingCompetition>

Grants & Fellowships

Midwest Archives Conference Seeks Applicants for Minority Student Scholarship

Midwest Archives Conference (MAC) is soliciting applications for the 2017 Archie Motley Memorial Scholarship for Minority Students. Two \$750 scholarships, accompanied by one-year MAC memberships, will be awarded. The scholarship is designed to provide financial assistance to minority students pursuing graduate

education in archival administration and to encourage ethnic diversification of the MAC membership and of the archival profession as a whole.

In order to be eligible for a scholarship, the applicant must be of African, American Indian, Asian or Pacific Islander, or Latino decent; must be a student currently enrolled in or accepted in a graduate, multicourse program in archival administration; and must have a grade point average of at least 3.0 (on a 4.0 scale) in his or her academic program. If the program is not listed in the SAA Directory of Archival Education, www2.archivists.org/dae, the applicant must provide proof of the multicourse standard by submitting copies of course descriptions from the institution's current departmental catalog. Applicants are not required to be residents of or attend school in the MAC region.

Application deadline: March 1, 2017. More details and full list of requirements can be found at: www.midwestarchives.org/motley.

Conservation Training Programs

Buffalo State College, Art Conservation Department

We are all elated to have received a generous \$4 million gift from the Garman Family Foundation this December and we plan to name the department the “Patricia and Richard Garman Art Conservation Department” in recognition of this magnificent donation. The Garman gift helps complete the Andrew W. Mellon challenge grant of \$2 million. Together, the Garman gift and the Mellon grant double the department's fellowship endowment accounts—outstanding news for future students and the entire field of conservation education.

The department welcomed Theresa J. Smith to teach paper conservation this fall following the retirement of Judy Walsh.

After 30 years of teaching paintings conservation, James Hamm will retire in December 2017. We will begin advertising for his successor soon.

Rebecca Ploeger and Aaron Shugar, conservation scientists, and other colleagues on the Buffalo State campus and beyond have been busy researching the pigment Indian yellow. They presented their work at the AIC's 44th Joint Annual Meeting in Montreal in May and will publish their findings in the *Journal of Cultural Heritage*. They also published an article on the evolution of conservation science in the Books Et Al. section of the journal *Science*.

This summer, James Hamm and J. J. Chen were involved in the technical examination and imaging of Waterloo Bridge by Claude Monet, owned by the University of Rochester's Memorial Art Gallery. It was exciting to have such a high-profile painting in the department and to see the masterpiece up close and from all angles, including the verso.

Next year marks the 30th anniversary of our program in Buffalo. It is hard to believe that three decades have passed since our home was in Cooperstown, NY. The department is planning a party in September 2017 for all alumni.

—*Meredeth Lavelle, Program Manager, Buffalo State College Art Conservation Department, LAVELLEMA@BuffaloState.edu*

Specialty Group Columns

Architecture Specialty Group (ASG)

2017 AIC Annual Meeting

Thank you to everyone who submitted abstracts this year. We are looking forward to an impressive ASG program and joint ASG/WAG session this year. Please register for the 2017 Chicago meeting if you have not done so already. Travel and accommodation information can be found on the [AIC website](#).

We would like to encourage current students and recent graduates to join both AIC and ASG, to come to the next meeting, and to get involved, so please spread the word to your younger colleagues.

Membership and New Officers

We are starting to consider the next elections, so please get in touch if you may be interested in running or would like to nominate someone for Program Chair.

Thank you to Roy Ingrassia and Adam Jenkins for their lead article contribution for this issue of the *AIC News*. We also want to encourage all of our longer-standing members to apply for Professional Associate or Fellow status. Increasing the population of ASG members with peer-reviewed status will allow ASG to contribute more substantially to the profession at large. You can contact ASG officers or AIC staff members if you have questions, or wish to find out more about this process.

—Leslie Friedman, ASG Chair, lfriedman@getty.edu

Book and Paper Group (BPG)

2017 AIC Annual Meeting

Planning for our Chicago meeting is well underway. The joint BPG and RATS reception will be held at the Newberry Library on Wednesday, May 31. Please plan on joining us.

For the Chicago meeting, BPG received many more speaker proposals than we were able to accommodate. Thanks to everyone who submitted a proposal; for those whose applications were accepted, please plan now for your written submission to the *Book and Paper Group Annual* (BPGA) after the meeting. It is a privilege to have your paper selected for the annual meeting; please share your work in written form with our BPG members who are not able to hear your talk in person. The hard deadline for submission to the BPGA is July 1.

BPG Wiki

Consider writing for the BPG wiki! BPG PubComm Wiki Coordinators, Katherine Kelly (book) and Denise Stockman (paper), would love your input. They may be reached at bookandpapergroup.wiki@gmail.com.

BPG Leadership

BPG is seeking candidates for Secretary/Treasurer and Assistant Program Chair. Specialty Group and AIC Board elections will take place in February 2017. If you are interested in either of these

positions, please contact Nominating Committee Chair Michelle Facini at bpg.facini@gmail.com.

We are also looking for an assistant editor for the BPGA to work with Eliza Gilligan, current BPGA editor, during her final months in that position, and to then take over as editor. Please contact me at the email below if you are interested in learning more.

—Whitney Baker, BPG Chair, bpg.whitneybaker@gmail.com

Conservators in Private Practice (CIPP)

2017 AIC Annual Meeting

2017 CIPP Annual Meeting in Chicago is now in the planning! The theme for our workshop will be “Innovative Tools to Enhance Your Business,” and we expect it to be a fun presentation including topics such as: innovative and useful gadgets, apps, technology, computer programs, and websites (for the conservator in private practice). Already on the docket is a presentation on Magnification Technology.

Digital photography equipment upgrades seem to be a re-occurring subject on the listserv, appearing a couple of times a year. So, we envision discussing uses of video and photos, legalities of image use of other people’s property. Can you line-item this in a conservation project estimate? Is there a subcontractor/expert to offer this service or expertise as members of your business team? All presentations are focused on how to enhance your private art conservation practice.

Our meeting’s presentations of useful information and the latest finds come from YOU! Make your participation in the AIC meeting in Chicago more meaningful and professional by taking part in a presentation in the annual CIPP session. Call us NOW to discuss your ideas: Scott Haskins, (805) 564-3438, faclartdoc@gmail.com or Kerith Koss Schragar (212) 920-5535, kerith.koss@gmail.com

—Scott Haskins, Program Chair, faclartdoc@gmail.com

Electronic Media Group (EMG)

2017 AIC Annual Meeting

2017 is the 20th anniversary of the EMG, and we are delighted to be in the planning stages of organizing an event during the Conference to commemorate this historic milestone! We hope that you will attend the conference to celebrate all the work EMG has done over the past two decades.

EMG is excited to host 18 talks over three days at this year’s annual meeting in Chicago. Topics include, but are not limited to: case studies on working with Arduinos, Integrated Circuit Boards, CRTs, film scanners, and custom image processing tools.

For further program details on the EMG sessions and a full list of speakers and titles, please check out our [schedule online](#).

In addition, EMG assisted in organizing the workshop [Examining the Composition and Structure of Digital Collection](#)

Objects: Strategies and Guidance for Ongoing Management and Preservation. This workshop will dive deep into the makeup of digital files for increased understanding by conservators, illustrating the fundamental nature and elements of digital objects—from bits to bytes, to formal format structures, file systems, operating systems, and interpreting software. Tickets for this workshop can be found on the workshop [registration page](#).

In line with the Annual Meeting's theme, *Treatment 2017: Innovation in Conservation and Collection Care*, EMG is planning to offer a behind-the-scenes tour of the digitization and preservation services at Video Data Bank. Housed at the School of the Art Institute of Chicago, Video Data Bank's collection includes the work of more than 600 artists and 6,000 video art titles, a collection shared through its preservation, education, and distribution work. More information on how to attend this tour will be distributed soon.

The EMG business meeting will take place on Wednesday morning, May 31st at 8:00 a.m. We hope that you will attend the EMG business meeting and help guide the future direction of EMG.

See you in Chicago!

—Crystal Sanchez, EMG Chair, sanchezca@si.edu

Objects Specialty Group (OSG)

2016 IAG Meeting

The annual Internal Advisory Group (IAG) Meeting was held in Washington, D.C., on November 11, 2016, providing Specialty Group leaders, the AIC board and staff the opportunity to discuss issues relevant to our membership. The meeting consisted of updates and recent developments presented by our various AIC/FAIC boards, committees and working groups; some of the newer initiatives of interest are:

- Equity & Inclusion Working Group: Sarah Barack (AIC Board Liaison) and Heather Galloway (Working Group Member) provided updates and reported on efforts to increase equity, inclusivity, and diversity in our field.
- Digital communications: Rachael Arenstein (AIC E-editor) and Katelin Lee (Membership and Marketing Associate) continue to encourage the members to use digital tools available online such as Memberfuse and STASHc.com, and to consider posting stories of your own work through the AIC's social media accounts including Facebook, Twitter, or YouTube. Contact Katelin in the AIC office, klee@conservation-us.org, for help in moving your content online.
- Membership Designations Working Group: Stephanie Lussier (AIC Board/Working Group Chair) announced the restructuring of the membership committee to include the existing peer-reviewed committee, along with an Equity and Inclusion Working Group and a Member Designation Working Group. The latter will review AIC's peer-reviewed member categories with respect to our evolving field, changing member demographics and the purpose of peer-reviewed status in promoting our members. The group will propose new member designations and/or better define eligibility criteria for peer reviewed status. Input from AIC members and further discussion will be included in the process of developing a proposal.

- JAIC: Julio del Hoyo-Meléndez (JAIC Editor-in-Chief) is looking for innovative and interesting topic papers, especially about treatment, and encourages all members to consider submitting and contributing a paper to the JAIC. Be sure to contact the JAIC staff early in your working process for guidance on how to shape your work and concept, in order to increase the likelihood of your paper being accepted.

2017 AIC Annual Meeting

UPDATE FROM TONY SIGEL (OSG PROGRAM CHAIR) AND CALL FOR SUBMISSIONS FOR OSG TIPS LUNCHEON SESSION

We hope you are planning to attend the 45th Annual AIC meeting in Chicago! The focus this year is on treatment, the practice of conservation, and the many wonderful abstract submissions from fellow OSG members have allowed us to assemble a really outstanding group of talks.

The general session this year will also have a tremendous number of exceptional, treatment oriented papers. A feature in our OSG session will be a panel devoted to the treatment of Della Robbia glazed terracotta sculpture. This takes advantage of the recent work done by several labs in the U.S. and Italy in support of the wonderful Della Robbia exhibition at the Boston Museum of Fine Arts last year, and opening February 5 to June 4 at the National Gallery of Art, Washington. I've seen it, and it's a knockout! We're planning a great reception with TSG at the Chicago History Museum, and a vigorous tips luncheon, so get those tips ready to present! Details on this will follow soon, with a deadline for submissions early in the New Year, 2017.

—Laura Lipsei, OSG Group Chair, laurali@rom.on.ca

Photographic Materials Group (PMG)

On December 2, 2016, the AIC Board of Directors released a statement on the Dakota Access Pipeline (DAPL). You can read the statement here: www.conservation-converse.org/2016/12/aic-board-of-directors-statement-on-the-dakota-access-pipeline-dapl/

PMG Biannual Winter meeting

It is time to register for our Winter Meeting if you haven't already done so. We will gather at the Nelson-Atkins Museum in Kansas City, Missouri, on February 10 and 11. Program, hotel, and registration details can be found at <http://www.conservation-us.org/PMGmeeting>. Please remember to RSVP if you are planning to attend Heugh-Edmonson Studio open house on Thursday. We have organized an evening reception at the Nelson-Atkins on Friday and invite you to join us for a night of delicious foods and drinks. Our business meeting will take place on Saturday; we will discuss current PMG projects and vote for the venue of the next Winter Meeting. I look forward to seeing many of you in Kansas City.

PMG Professional Development Stipend

Applications to the PMG Professional Development Stipend will now be processed electronically via AIC website, through the online portal (OpenWater). Guidelines and a link to the

application forms can be found following this link <http://www.conservation-us.org/specialty-topics/photographic-materials/professional-development-stipend>. Next application deadline for the stipend is March 15, 2017.

Wishing you all a prosperous 2017!

—Sylvie Pénichon, PMG Chair, spenichon@artic.edu

Paintings Specialty Group (PSG)

Although I am writing this in November, I wish all of you a Happy New Year.

For those not on the PSG listserv, there was a rather frank and robust discussion on issues ranging from certification to program training vs. apprentice training during the fall months of last year. Because of this discussion, Joanna Dunn and her team are looking again at these difficult issues in detail. This will be another long road, but I believe it is certainly worth pursuing once again.

I have not progressed as far as I wished on my punch list. Kari Raynor has agreed to be the wiki editor, and several members will be helping her. The website project is proceeding as well. I have also not had much luck with the investigation in the remanufacturing of MS2A varnish, but I will keep trying!

2016 IAG Meeting

The internal advisory group meeting was held in Washington, D.C., on Friday, November 11. All of the specialty groups, committees, and working groups updated everyone present about their recent activities. Members of AIC have talked about the lack of diversity within the field for many years, and some discussion centered on a new working group that will begin addressing this in the months to come. Sanchita Balachandran gave an amazing presentation about this issue in Montreal, for which she received a standing ovation. If you missed Sanchita's talk in Montreal, you can read it here: <http://tinyurl.com/j7rvfoc>.

2017 AIC Annual Meeting

Ruth Seyler wanted me to pass along a few comments about the next annual meeting in Chicago. She urges everyone who can to stay in the conference hotel. Finally, as related to our group, we are having only one ticketed event (there will be no box lunch); the PSG reception that will be held at the Union League. It would be wonderful if all members could attend this event! The prices for the reception will be \$24 for students, \$49 for members, and \$59 for non-members.

—Noelle Ocon, PSG Chair, noelle.ocon@ncdcr.gov

Research & Technical Studies Group (RATS)

2017 AIC Annual Meeting

Thank you to all who submitted abstracts for the 2017 AIC Annual Meeting. Program Chair Kristin de Ghetaldi and Vice Chair Cory Rogge have done a great job organizing the RATS solo session and coordinating the joint sessions with both the PSG and BPG, and it's shaping up to be a great program! In addition, RATS/BPG will be hosting a joint reception at the

beautiful Newberry Library. Looking forward to seeing everyone in Chicago!

—Karen Trentelman, RATS Chair, ktrentelman@getty.edu

Textiles Specialty Group (TSG)

2017 AIC Annual Meeting

The TSG sessions at the 2017 Annual Meeting are not to be missed! There will be three days of TSG programming that include presentations, panel discussions, and a tips session. The full schedule is now available on the AIC website: <https://aics45thannualmeeting2017.sched.org/overview/type/Specialty+Session/Textiles>.

Remember to register by February 28 for the early rate!

2016 IAG Meeting

The annual meeting of the Internal Advisory Group of AIC was held in November and was a full day meeting of updates and discussion about current activities, initiatives and concerns within AIC and the various specialty groups. Minutes of past meetings are posted on the AIC website, but here are a couple highlights that are of special interest to TSG members.

There was discussion about continuing developments to improve digital communications. One aspect of this is that SG's will be developing sub-sites within the AIC site, where we can hold TSG information such as officer guidelines, legacy materials, and a TSG-member-restricted area for pages we want to protect. TSG needs two members to assist in this project. Please contact TSG Chair Kathy Francis if you can help the group with this special project.

Different groups are spending SG Reserve funds down in various ways. Some ideas that other groups have implemented are: increasing donations to FAIC scholarship funds, starting new scholarship funds for members, and initiating new projects (publications, professional development, etc.). If you have ideas for TSG reserves, please discuss them with other TSG members and contact TSG officers.

AIC-TSG Achievement Award

The TSG is seeking nominations for the AIC-Textiles Specialty Group Achievement Award. This award will be presented to an entity or individual that has promoted, defended, and worked in support of the importance of textiles and their need for preservation. An individual must be a Professional Associate or Fellow of AIC. Dedication to the organization over their years of membership will be taken into consideration as well as commitment, leadership, and continuous contribution to the field of Textile Conservation. The Proposer/Nominator and one Sponsor should provide strong evidence in writing of the nominee's commitment to the field in areas such as research, analysis, conservation, teaching, and support of the textile conservation community. Both the Proposer/Nominator and the Sponsor must be an Associate, a Professional Associate, or a Fellow of AIC. The 2016 Nomination Form/Guidelines are available online via the AIC-TSG web page: www.conservation-us.org/membership/awards/textiles-award. The next deadline is February 15, 2017, to submit the nomination

paperwork (in PDF format) to Katelin Lee in the AIC office:
awards@conservation-us.org.

—Kathy Francis, TSG Chair, kfrancis@francitextile.com

Wooden Artifact Group (WAG)

WAG Scholarship Update

After much planning and time, we are pleased to announce that the WAG Scholarship Fund is up and running! Many thanks to all those who have contributed to this initiative over the last few years, including David Bayne, Eric Pourchot, Ruth Seyler, Stephanie Auffret, Paige Schmidt, Deborah Trupin, Randy Wilkinson, Steve Pine, Alex Carlisle, and Sarah Saetren. My apologies if I have missed anyone.

Here is the link to the page on the AIC's website:

<http://www.conservation-us.org/specialty-topics/wooden-artifacts/wag-scholarship-fund>

Here is a brief description of the Fund:

In order to promote accessibility to the field of wooden artifact conservation and encourage growth within the AIC Wooden Artifact Specialty Group, WAG has approved the creation of a Scholarship Fund. This fund is available to financially supplement internships and educational experiences in the field of wooden artifact conservation, and targets pre-program interns and emerging conservation professionals. Priority will be

placed on applications for internship funding.

Beginning in 2017, a two-year trial window is set for the Scholarship Fund, after which point the success and continuation of Scholarship Fund will be reevaluated by the Chair and Advisory Committee presiding at that time.

2017 AIC Annual Meeting

Just another reminder that AIC's 45th Annual Meeting will be held May 28 through June 1, 2017, in Chicago. Chicago is a fantastic city to visit and will certainly attract a large crowd, eager to learn and share knowledge about this year's theme, "Treatment 2017: Innovation in Conservation and Collection Care."

Our new incoming WAG Program Chair Genevieve Bieniosek has done a great job finalizing the programming for the Chicago meeting. In addition to the WAG session, we will also be holding a joint session with the ASG, led by Andrew Fearon. We have a great selection of papers and it is shaping up to be an informative meeting.

Please contact Genevieve Bieniosek (WAG Program Chair, gbieniosek@gmail.com), or Andrew Fearon (ASG Program Chair, afearon@mccollab.com) with any questions regarding the programming for the meeting.

As always, please feel free to contact me with any WAG related questions, concerns, or thoughts you would like to share.

See you all in Chicago if not sooner!

—Tad Fallon, 2015-2017 WAG Chair,
Tfallon1024@comcast.net

Network Columns

Collection Care Network (CCN)

CCN Leadership: Seeking two officers

Are you passionate about preventive conservation and collection care? Have you been looking for a way to get more involved in a leadership role in AIC? The Collection Care Network (CCN) is currently looking to fill two Officer positions: Vice Chair and Social Media Chair.

CCN is looking for candidates for Vice Chair who strongly believe in AIC's commitment to growing the practice of preventive conservation and developing working relationships with allied professionals and organizations who support collection care practice. The successful applicant will serve one 3-year term as Vice Chair, and then will serve a second 3-year term as Chair of the Network, followed by a 1-year Chair Emeritus term. While Vice-Chair, s/he will assist the Chair in strategy and planning, as well as serve as coordinator for CCN special projects. This is an excellent position for someone passionate about collection care and AIC.

The Social Media Chair is a new Officer position approved by the AIC Board this past Fall. The applicant for this position should have extensive knowledge of the audience, purpose, and general outcomes for various social media platforms. Responsibilities will include developing content strategies, organizing content workflow to CCN social media sites that adhere to AIC social media policy, managing content from others to CNN social media sites, and communicating social media outcomes to fellow CCN

Officers that might lead to potential CCN projects.

Both applicants should have a strong interest in furthering preventive conservation and collection care, as well as excellent writing and organizational skills. The CCN Officers meet once a month via conference call, as well as at the AIC Annual Meeting in May.

To apply, please send a letter of interest and C.V. to Becky Fifield at rebeccafifield@nypl.org, by February 15. For further information or to discuss a position, you may call her at (617) 212-1468.

CCN is an AIC board-appointed network. Leadership in a network is by application and selection with final approval by the AIC board. Every effort is made to ensure that the officers represent CCN's intended demographic, with wide geographic representation, and balanced representation from conservators and allied professionals.

AIC's 45th Annual Meeting

2-DAY WORKSHOP

The Collection Care Network is proud to host "Reading Between the Lines: Understanding Construction and Exhibit Design Drawings," a two-day workshop on May 28 and 29, at the Annual Meeting in Chicago. Preservation professionals (conservators, collection managers, registrars, or others) have an initial opportunity to shape the preservation of collections by contributing to planning of construction and renovation projects.

Being able to understand architectural drawings and the preservation outcomes that the built environment will achieve is central to making good decisions for collection preservation.

This two-day workshop will bring together architects and engineers experienced in working with conservators to teach skills involved with understanding architectural, mechanical, electrical, and exhibition design drawings. Without formalized training in reading drawings, conservators and allied collection professionals may be missing crucial details that will affect their work and preservation of their collections. This course will enable the preservation professional to be better advocates for the collections and the staff that work with them in producing sustainable and effective preservation spaces. The course will also improve preservation professionals' abilities as project team members, providing benefits for institution and collection preservation alike.

Space is limited, so be sure to sign up early! Registration is \$279.00; further details related to registration and logistics can be found on the Annual Meeting's [website](#).

CCN IDEA FAIR!

Are you interested in preventive conservation and collection care, but not sure how to get more involved through AIC? Do you have questions about the Collection Care Network? The Collection Care Network is excited to be hosting an Idea Fair during the Annual Meeting on Thursday, June 1, from 1–2 p.m. The location will be updated on the meeting's online SCHED when it becomes available.

Meet all the CCN Officers and get a chance to discuss issues in preventive conservation and collection care during this informal meet-and-greet event. Discuss current CCN projects and interest areas, including: materials testing, collaboration with allied professionals, hazards in collections, professional standing, and much more. Bring ideas and learn how to become more involved. Coffee and cookies will be provided, courtesy of Tru Vue sponsorship. We hope to see you there!

—Becky Kaczkowski, CCN Editor, kaczkowskir@si.edu

Emerging Conservation Professionals Network (ECPN)

ECPN on Conservators Converse

ECPN continues to actively contribute to AIC's blog *Conservators Converse*. This fall, Outreach Co-officer Kimi Taira developed ECPN's first specialty group blog post mini-series featuring interviews with conservators specializing in Asian art. These interviews address the unique career paths and training required to pursue East Asian art conservation as a specialty. The first installment, [an interview with Sara Ribbans](#) of the Cleveland Museum of Art, went live in July 2016. Additional interviews in this series will post throughout 2017. Professional Education and Training Co-officer Jessica Walthew also authored the post "[Digital Tips and Tools for Conservators](#)," summarizing a recent series of posts on ECPN's Facebook forum that highlighted some of our favorite electronic resources.

Webinar on Leadership

On October 27, 2016, ECPN hosted the webinar: "Emerging Leaders in Conservation: Developing Leadership Skills as an Early-Career Professional." Organized and moderated by ECPN Webinar Coordinator Kari Rayner, this program featured a panel of three speakers with varied backgrounds and at different stages in their careers:

- International Institute for Conservation (IIC) President, Sarah Staniforth, who recently co-taught the workshop at the Winterthur Museum "Learning to Lead: Training for Heritage Preservation Professionals," in April 2016.
- Paper Conservator Michelle Facini from the National Gallery of Art, Washington, a Fellow of AIC who has formerly chaired the Book and Paper Specialty Group.
- Molly Gleeson, Project Conservator in Objects Conservation at the Penn Museum, Professional Associate of AIC, and former chair of ECPN.

A [recording of the webinar](#) is now available on [AIC's YouTube channel](#). A [blog post](#) with follow-up Q&A, and a bibliography was also published on [Conservators Converse](#).

Regional Liaison Program

We are impressed by our active Regional Liaisons who have been busy this fall organizing social and professional development activities for emerging conservators around the country! Fall highlights include a successful CV/Resume Review Session organized by New York City ECPN Regional Liaisons, Alexandra Nichols and Kasey Hamilton, in November 2016. Also in November, Julia Commander and Stephanie Carrato, Philadelphia ECPN Regional Liaisons, hosted a Write/Edit-a-Thon session for individuals applying to conservation graduate programs.

2017 AIC Annual Meeting

POSTER SESSION LIGHTNING ROUND

ECPN is excited to host a Poster Session lightning round at the AIC's 45th Annual Meeting in Chicago. This pre-conference session will emphasize the contributions of ECPs presenting at the conference, and it will provide a fun and informal platform for sharing. Participants will give a very short presentation highlighting the contents of their poster, and will have an opportunity to field questions from colleagues. A happy hour reception will follow, with details to be determined.

INFORMATIONAL MEETING

This year, ECPN plans to reinstate an informational meeting during which officers will deliver updates on network programs and initiatives. In addition, we will open the floor to ECPs for suggestions, comments, and feedback.

—Michelle Sullivan, ECPN Chair, msullivan@getty.edu

Courses, Conferences, and Seminars

FAIC PROFESSIONAL DEVELOPMENT COURSES

Most of the following courses are presented with funds from the FAIC Endowment for Professional Development, which is supported by The Andrew W. Mellon Foundation and by contributions from members and friends of AIC. Full descriptions and registration information are available on the FAIC website (www.conservation-us.org/current-courses). Free webinars produced by FAIC's other programs, such as Collections Assessment for Preservation (CAP), Connecting to Collections Care (C2CCare), and Alliance for Response (AFR) are also included.

FAIC 2017 Calendar of Events

Photographic Chemistry for Preservation, through March 2017, Online course
Presented with support from The Andrew W. Mellon Foundation; created with funding from the National Endowment for the Humanities.



Alliance for Response Webinars

Presented with support by a grant from the National Endowment for the Humanities.

Free online courses:

- **Exercise Without Leaving Your Seat: Practicing the Incident Command System at the Institutional Level**, January 19, 2017, 1:00-2:30 p.m. EST
- **Crisis Communications**, January 24, 2017, 1:00-2:30 p.m. EST
- **Best Practices for Seeking Funding**, January 26, 2017, 1:00-2:30 p.m. EST



Connecting to Collections Care (C2CCare) Free Webinars

- **Preserving Film Collections for the Future: A Web Application**, Thursday, January 26, 2017, 2:00-3:30 p.m. EST
- **Practical Solutions: Quilt Care and Display**, Thursday, February 16, 2017, 2:00-3:30 p.m. EST
- **Oversize, Overwhelmed? Caring for Maps and Architectural Drawings in your Collection**, Thursday, March 16, 2017, 2:00-3:30 p.m. EST

The Conservation of Archaeological Iron, two presentations: April 18-21 and April 24-27, 2017, Williamsburg, VA
Presented with support by a grant from the National Endowment for the Humanities and sponsorship from Airabrasive

Approaches to the Conservation of Contemporary Murals, May 28-29, 2017, Chicago, IL
Presented with support by a grant from the National Endowment for the Humanities and sponsorship from Golden Acrylic Colors, Inc. and Nova Color Acrylic Paints

Illumination of Collections on Exhibit: Optimization of the Visual Experience, May 29, 2017, Chicago, IL
Presented with support by a grant from the National Endowment for the Humanities and sponsorship from Lighting Services Inc.

Additional workshops at the AIC Annual Meeting, May 28-29, 2017, Chicago, IL.

Info and registration at www.conservation-us.org/meeting

- **Building Emergency Response Skills**
- **Effectively Using Portable IR and Raman Instruments for Art Object Analysis Examining the Composition and Structure of Digital Collection Objects: Strategies and Guidance for Ongoing Management and Preservation**
- **Introduction to Podcasting for Conservation**
- **MINGLE! A Workshop on Strategic Networking**
- **Out Damn Spot: An Exploration of Chelating Agents and Alternative Methodologies for Removing or Reducing Staining in Paper**
- **Preservation on a Budget**
- **Reading Between the Lines: Understanding Construction and Exhibit Design Drawings**
- **Respirator Fit Testing**
- **Tools and Techniques for UV/Visible Fluorescence Documentation**

Printing Process Identification, June 2, 2017, Hooke College of Applied Sciences, Westmont, IL.

Info and registration at www.mccrone.com/printing-process-identification-workshop

Preventive Conservation, Summer 2017, Annandale-on-Hudson, NY

Presented with support by a grant from the National Endowment for the Humanities.

Salted Paper Prints: Process and Purpose

- **Workshop**, September 13, 2017, Northeast Document Conservation Center, Andover, MA
- **Symposium**, September 14-15, 2017, Harvard University, Cambridge, MA

Presented with support from The Andrew W. Mellon Foundation fund for Collaborative Workshops in Photograph Conservation, a grant from the National Endowment for the Humanities, and sponsorship from the "2001 Photo Grads."

Printing Process Identification, June 2, 2017, Hooke College of Applied Sciences, Westmont, IL.

Info and registration at www.mccrone.com/printing-process-identification-workshop

Preventive Conservation, Summer 2017, Annandale-on-Hudson, NY

Presented with support by a grant from the National Endowment for the Humanities.

Visit www.conservation-us.org/current-courses for more information.

Calls for Papers, Conferences, Seminars, and Courses
are continually updated and can be found online at
resources.conservation-us.org/aicnews/

COURSES, CONFERENCES, AND SEMINARS

Calls for Papers

Submission Deadline: January 30, 2017.

Storage Techniques for Art, Science and History (STASH), STASH Flash 2017 at the AIC Annual Meeting, Chicago, IL (Conference dates: May 28–Jun 1, 2017).

Contact: Submit abstract to Rachael Arenstein, rarenstein@conservation-us.org
Info: www.stashc.com/call-for-submissions-stash-flash-2017/

Submission Deadline: February 1, 2017.

IFLA World Library and Information Congress, Call for Posters, Wroclaw, Poland (Conference Dates: Aug 19 – 25, 2017).

Contact: posters@ifla.org
Info: 2017.ifla.org/programme/poster-sessions/call-for-posters

Submission Deadline: February 5, 2017.

ICON Furniture and Wood Group, *ICON Furniture and Wood Group Bi-Annual Symposium 2017*. (Conference Dates: May 12, 2017)

Info: Alex Owen, Chair, ICON Furniture and Wood Group, c/o Victoria and Albert Museum, London SW7 2RL, UK, aowen.cons@gmail.com

Submission Deadline: February 6, 2017.

Museum Ethnographers Group (MEG), *Cloth & Costume in Ethnographic Museums: New Directions in Research, Care & Interpretation* (Conference dates: April 6 – 7, 2017).

Contact: Andrew.Mills@glasgow.ac.uk
Info: www.museumethnographersgroup.org.uk/en/conference/417-2017-conference-cloth-and-costume-in-ethnographic-museums.html

Submission Deadline: February 15, 2017.

Stichting Restauratie Atelier Limburg (SRAL), Bonenfanten Museum, CEROART, and MACCH, *Conference Vandalism & Art, Maastricht, The Netherlands* (Conference Dates: Jun 8 – 9, 2017).

Contact: k.seymour@sral.nl
Info: www.sral.nl/en/nieuws/conference-vandalism-art-june-8-9-2017-maastricht-netherlands/

Submission Deadline: February 28, 2017.

Academic Materials Research Laboratory of Painted Artworks (ALMA), 6th interdisciplinary ALMA Conference (Conference Dates: May 31 – Jun 3, 2017).

Contact: alma2017@alma-lab.cz
Info: www.alma-lab.cz/eng

Submission Deadline: March 1, 2017. IFLA

World Library and Information Congress – History Special Interest Group, *Libraries in times of crisis: Historical perspectives*, Wroclaw, Poland (Conference Dates: Aug 19 – 25, 2017).

Contact: Dr. Kerry Smith, Convenor, IFLA Library History SIG, kerrylib@westnet.com.au, tel: +61 8 9385 9119

Info: 2017.ifla.org/cfp-calls/library-history-special-interest-group

Submission Deadline: March 1, 2017. IFLA

World Library and Information Congress, *The Agony of Long-term Access: Collection building in the digital era*, Wroclaw, Poland (Conference Dates: Aug 19 – 25, 2017).

Contact: alenka.kavcic@nuk.uni-lj.si

Submission Deadline: March 10, 2017.

World Multidisciplinary Art Symposium, WMAS 2017, Prague, Czech Republic (Conference Dates: Jun 19 – 23, 2017).

Contact: worldmas@worldmas.org
Info: www.worldmas.org

Submission Deadline: March 13, 2017.

New Jersey Council for the Humanities, 2017 New Jersey History & Historic Preservation Conference, Edison, NJ, USA. (Conference Dates: Jun 7 – 8, 2017)

Info: http://njht.org/dca/njht/events/2017_CallforPosters.pdf

Submission Deadline: April 7, 2017. Icon

Ceramic and Glass Group, *Conference 2017* (Conference Date: September 8, 2017)

Contact: ICONCGG@gmail.com
Info: icon.org.uk/news/call-papers-icon-ceramics-and-glass-group-conference

CONFERENCE ANNOUNCEMENTS

Jan 20–24, 2017. (BPG) American Library Association, *ALA Midwinter Meeting* (Atlanta, GA, USA).

Info: <http://2017.alamidwinter.org/>

Jan 23–28, 2017. (TSG) The Textile Conservation Workshop of the Museum fuer Islamische Kunst, Staatliche Museum zu Berlin, *Textile Wet Cleaning, Basic and Advanced* (Berlin, Germany).

Contact: Anna Beselin, Leitende Textilrestauratorin Senior Textile Conservator, Tel: +49(0)30 266-42-5225, Fax: +49(0)30 266-42-5202

Jan 27–28, 2017. Polytechnic University of Valencia (UPV) and Subdirecció de Conservación, Restauración e Investigación IVC+R de CulturArts Generalitat Valenciana, *Paintings on Copper (and Other Metal Plates): Production, Degradation and Conservation Issues* (Valencia, Spain).

Info: conservacion&restauracion@upv.es

Feb 1–4, 2017. Colorado Preservation Inc., *2017 Saving Places Conference* (Denver, CO, USA).

Info: coloradopreservation.org/saving-places-conference/2017-saving-places-conference/

Feb 2, 2017. University of Liège (UR AAT) and ESA Saint-Luc de Liège, *On Nicolas Schöffer: Conserving/Restoring Works of a Technological Nature* (Paris, France)

Contact: MurielVerbeeck,ceroart@mac.com
Info: ceroart.revues.org/4998

Feb 3, 2017. The Association for Preservation Technology International, *2017 Annual Symposium - Coming of Age: Preserving Buildings of the Modern Era* (Albany, NY, USA).

Info: <http://aptne.org/>

Feb 8–10, 2017. The Australian Institute for the Conservation of Cultural Materials (AICCM), *Objects and Electronic Special Interest Groups, The Shock of the New: Modern Materials, Media and Methods* (Melbourne, Australia).

Info & registration: www.aiccm.org.au
Contact: Helen Privett, hprivett@museum.vic.gov.au, +61 3 8341 7235

Feb 10–11, 2017. (PMG) American Institute for Conservation and Photographic Materials Group, *Biannual PMG Winter Meeting*, Kansas City, MO, USA.

Info: www.conservation-us.org/pmgmeeting

Feb 15–17, 2017. Museum Next, *Risk*, Melbourne, Australia.

Info: www.museumnext.com/conference/museumnext-melbourne/

Mar 7–8, 2017. Cultural Heritage Imaging and The Metropolitan Museum of Art, *Illumination of Material Culture: A Symposium on Computational Photography and Reflectance Transformation Imaging* (New York, NY, USA).

Info: culturalheritageimaging.org/What_We_Do/Projects/neh-training/symposium/index.html

Mar 15–17, 2017. (ASG) Architectural Paint Research, *6th International Architectural Paint Research Conference*, New York, NY, USA.

Info: www.apr2017.org/registration/

Mar 16–17, 2017. Simulizi Mijini, Urban Narratives and DARCH! Dar es Salaam Centre for Architectural Heritage, *Urban Heritage Activism* (Berlin, Germany).

Info: urbannarratives.org/en/conferences/

Mar 16-18, 2017. Integrated Pest Management Working Group (IPM-WG), *Annual Working Group Meeting* (Winterthur, DE, USA).

Info: www.museumpests.net

Mar 21-23, 2017. Sociedad Española de Historia de la Arqueología (SEHA) & Museo Arqueológico Nacional (MAN), *Arqueology of Museums* (Madrid, Spain).

Info: www.man.es/man/actividades/congresos-y-reuniones/2017-congreso-arqueologia.html

Mar 23-25, 2017. Association for Preservation Technology, Rocky Mountain Chapter (APTSLC), *Mesa to Mountain: Preservation in the American West* (Salt Lake City, UT, USA).

Info: <https://rockymountainapt.com/events/apt-slc-2017-mesa-to-mountain-preservation-in-the-american-west/>

Apr 6-7, 2017. Museum Ethnographers Group (MEG), *Cloth & Costume in Ethnographic Museums: New Directions in Research, Care & Interpretation* (Glasgow, Scotland, UK).

Info: www.museumethnographersgroup.org.uk/en/conference/417-2017-conference-cloth-and-costume-in-ethnographic-museums.html

Apr 6-10, 2017. Ironbridge International Institute for Cultural Heritage, Collaborative for Cultural Heritage Management and Policy (CHAMP), Universidad Nacional de Tres de Febrero (UNTREF) & Asociación Amigos del Museo Nacional de Bellas Artes, UNESCO Chair of Cultural Tourism, MUNTREF sede Museo de la Inmigración, *Heritages of Migration: Moving Stories, Objects and Home* (Buenos Aires, Argentina).

Info: heritagesofmigration.wordpress.com/

Apr 7-8, 2017. Preparation Art Handling and Collections Care Information Network (PACCIN), *Preparators Conference* (Ft. Worth, TX, USA).

Info: www.paccin.org

Apr 25-28, 2017. Indiana Landmarks, *Preserving Historic Places* (Wabash, IN).

Info: www.indianalandmarks.org/event/preserving-historic-places-conference/

May 3-5, 2017. (BPG) International Association for Book and Paper Conservators (IADA), *From Generation to Generation: Sharing Knowledge, Connecting People*, (Oslo, Norway).

Info: info@iada-home.orgx

May 7-10, 2017. American Alliance of Museums, *2017 Annual Meeting and Museum Expo – Gateways to Understanding Diversity, Equity, Accessibility + Inclusion in Museums* (St. Louis, MO, USA).

Contact: proposal@aam-us.org

Info: <http://annualmeeting.aam-us.org>

May 12, 2017. (WAG) ICON Furniture and Wood Group, *ICON Furniture and Wood Group Bi-Annual Symposium 2017* (London, UK).

Contact: Alex Owen, Chair, ICON Furniture and Wood Group, c/o Victoria and Albert Museum, London SW7 2RL, UK, aowen.cons@gmail.com

May 14-17, 2017. Museums Galleries Australia, *Museums & Galleries in their Cultural Landscapes* (Brisbane, Australia).

Info: www.mga2017.org.au/

May 17-19, 2017. The Missouri Alliance for Historic Preservation (Missouri Preservation), *Home Town Preservation* (Hannibal, MO, USA).

Info: www.preservemo.org

May 24-27, 2017. Conservators of the Baltic States, *The 11th Triennial Meeting for Conservators of the Baltic States, Changing Contexts: from Environment to Ideas* (Estonia, Tartu).

Info: www.eestikonservaator.ee/triennial2017/

May 28-Jun 1, 2017. American Institute for Conservation of Historic & Artistic Works (AIC), *45th Annual Meeting, Treatment 2017: Innovation in Conservation and Collection Care* (Chicago, IL, USA).

Info: www.conservation-us.org/meeting

May 31-Jun 3, 2017. Academic Materials Research Laboratory of Painted Artworks (ALMA), *6th interdisciplinary ALMA conference* (Brno, Czech Republic).

Info: www.alma-lab.cz/eng

June 1-3, 2017. International Cultural Centre, *4th Heritage Forum of Central Europe: Heritage and Society* (Krakow, Poland).

Info: mck.krakow.pl/conferences/4th-heritage-forum

Jun 6-10, 2017. Canadian Association for Conservation of Cultural Property (CAC-ACCR), *43rd Annual CAC-ACCR Conference and Workshops*, Regina, Saskatchewan, Canada.

Info: www.cac-accr.ca/conferences

Jun 7-11, 2017. Society of Architectural Historians, *2017 Annual International Conference* (Glasgow, UK).

Info: www.sah.org/conferences-and-programs/2017-conference-glasgow

Jun 8-9, 2017. Association des Preventeurs Universitaires – Conservation du Patrimoine, (APrevU), *Conference on the Development of Preventive Conservation in France* (Paris, France).

Info: <http://aprevu.com/2016/06/11/appeal-a-contribution/>

June 8-9, 2017. Stichting Restauratie Atelier Limburg (SRAL), Bonnefanten Museum, CEROART, and MACCH, *Conference Vandalism & Art* (Maastricht, The Netherlands).

Info: www.sral.nl/nl/nieuws/conference-vandalism-art-june-8-9-2017-maastricht-netherlands/

Jun 18-24, 2017. Society for the Preservation of Natural History Collections (SPNHC), *SPNHC 32nd Annual Meeting* (Denver, CO, USA).

Contact: Kelly Tomajko, kelly.tomajko@dmns.org
Info: www.spnhc2017denver.org/

Jun 19-23, 2017. World Multidisciplinary Art Symposium, *WMAS 2017* (Prague, Czech Republic)

Info: www.worldmas.org

Jun 22-27, 2017. American Library Association (ALA), *2017 Annual Conference and Exhibition* (Chicago, IL, USA)

Info: 2017.alaannual.org/

Jun 24-Jul 5, 2017. Letterworks, *36th International Lettering Arts Conference* (Ogden, UT, USA).

Info: letterworks.org/

Aug 9, 2017. The Institute of Conservation (ICON) Ceramic and Glass Group, *The Conservation of Ceramics, Glass and Enamels* (Oxford, UK).

Info: <http://icon.org.uk/events/icon-ceramics-and-glass-group-conference>

Aug 19-25, 2017. IFLA World Library and Information Congress, *The Agony of Long-term Access: Collection building in the digital era* (Wroclaw, Poland).

Aug 20-25, 2017. The Materials Research Society (MRS) and Sociedad Mexicana de Materiales (SMM), *XXVI International Materials Research Congress* (Cancun, Mexico).

Info: www.mrs-mexico.org.mx/imrc2017/program-session.php?id=00046#

Sep 4-8, 2017. International Council of Museums Committee for Conservation (ICOM-CC), *Linking Past and Future* (Copenhagen, Denmark).

Info: www.icom-cc2017.org

Sep 8, 2017. ICON Ceramic and Glass Group, *Conference 2007* (Oxford, UK)

Info: icon.org.uk/news/call-papers-icon-ceramics-and-glass-group-conference

Sep 14-16, 2017. (ASG) Ministerio de Economía y Cometicidad, Universityat Politecnica de Valencia, Instituto de Restauracion del Patrimonio, *SOSTierra 2017: International Conference on Vernacular Earthen Architecture, Conservation and Sustainability* (Valencia, Spain).

Info: <http://sostierra2017.blogs.upv.es/home/>

COURSES, CONFERENCES, AND SEMINARS

Sep 20-23, 2017. Alberta Museums Association (AMA) and Western Museums Association (WMA), 2017 UNITE (Edmonton, AB, Canada).

Info: www.museums.ab.ca/what-we-do/annual-conference.aspx

Sep 25-28, 2017. Western Association for Art Conservation (WAAC), *Annual Meeting* (Tucson, AZ, USA).

Info: <http://cool.conservation-us.org/waac/>

Oct 11-14, 2017. Association for Preservation Technology International (APT), *APT Ottawa 2017* (Ottawa, Canada).

Info: www.apti.org/

Oct 16-18, 2017. International Academic Projects and the Tate Gallery, *Gels in Conservation*, London, UK.

Contact: info@academicprojects.co.uk

Nov 6-11, 2017. (TSG) North American Textile Conservation Conference (NATCC), *Embellished Fabrics: Conserving Surface Manipulation and Decoration*, 11th North American Textile Conservation Conference (Mexico City, Mexico).

Info: <http://natconference.com/>

2018

Jan 25-27, 2018. University of Applied Sciences and Arts (HAWK), *Materials and Methods for the Consolidation of Cultural Heritage: An Interdisciplinary Dialogue*, Hildesheim, Germany.

Info: www.hornemann-institut.de/english/2353.php

Contact: Dr. Angela Weyer, Director of the Hornemann Institute, HAWK University of Applied Sciences and Arts, Hildesheim/Holzminden/Goettingen, Hornemann Institute, Kardinal-Bertram-Strasse 36, 31134 Hildesheim, Germany, Tel: +49 5121 408179

Fall 2018. Association for Preservation Technology International, *APT Buffalo Niagara 2018* (Buffalo Niagara, NY, USA).

Info: www.apti.org/

NEW COURSE LISTINGS

A complete listing of CCS courses, institutions that offer courses of interest to conservation professionals, and contact information is available online at <http://resources.conservation-us.org/aicnews/calendar-listings>.

Adventures in Preservation (AiP)

1557 North Street

Boulder, CO 80304 USA

Tel: +1 (303) 444-0128

E-mail: trips@adventuresinpreservation.org

www.adventuresinpreservation.org/

2017 Hands-on Sessions:

May 28-Jun 10, 2017. *Save the Crumbling Cracker House* (St. Joseph, MO, USA)

May 22-Sep 7, 2017. *Building Documentation in Kumayri Cultural Museum-Preserve* (Gyumri, Armenia)

Jun 4-17, 2017. *Restoring a Greenhouse to Grandeur* (Moray, Scotland)

Aug 13-27, 2017. *Chateau Conservation Projects* (Dole, France)

Sep 3-10, 2017. *Traditional French Upholstery* (Dole, France)

American Academy in Rome

7 East 60 Street

New York, NY 10022-1001 USA

Tel/Fax: +1 (212) 751-7200

Jun 12-18, 2017. *Digital Documentation of Archaeological Collections*

Jun 19-Jul 14, 2017. *Roman Pottery Studies*

Jun 19-Jul 27, 2017. *Classical Summer School*

Jun 19-23, 2017. *The Art Historical Image in the Digital Age*

American Academy of Bookbinding

117 North Willow Street

Telluride, CO 81435 USA

Tel: +1 (970) 728-8649

E-mail: aab@ahhaa.org

www.bookbindingacademy.org

Apr 24-May 5, 2017. *Fine Leather Binding in Miniature*

May 8-12, 2017. *Creating a Panel Cover Structure*

May 15-19, 2017. *Exploring Doublures*

May 22-26, 2017. *Gold Tooling*

May 29-Jun 9, 2017. *Fundamentals / Intermediate Fine Leather Binding*

Jun 19-23, 2017. *Binding Treatment-Cloth and Paper*

Jun 26-30, 2017. *Binding Treatment-Leather*

Jul 17-21, 2017. *Introduction to Bookbinding*

July 24-28, 2017. *Protective Box Making*

July 31-Aug 4, 2017. *By the Number: Edition Binding Made Elegant*

Sep 20-22, 2017. *Reflection and Impression: Gilding and Embossing on Paper*

Sep 25-29, 2017. *From Content to Concept to Object*

Oct 2-13, 2017. *Intermediate / Advanced Fine Leather Binding*

Oct 16-20, 2017. *Articulated Leather Binding*

Nov 6-10, 2017. *Roll, Tablet, Codex: The History of Early Book Structures*

Nov 13-17, 2017. *Basic Paper Conservation*

The Attingham Trust

70 Cowcross St, London EC1M 6EJ, UK

+44 20 7253 9057

Contact: Rebecca Parker

www.attinghamtrust.org/

Jun 29-Jul 16, 2017. *The 66th Attingham Summer School*

Sep 3-12, 2017. *Royal Collection Studies*

Sep 18-26, 2017. *The Attingham Study Program: Palaces and Villas of Rome and Naples*

DTB. *French Eighteenth-Century Studies at the Wallace Collection*

The Centre for Photographic Conservation

233 Stanstead Road

Forest Hill

London SE23 1HU, England, UK

Tel: +44(0)20-8690 3678

E-mail: xf59@dial.pipex.com or

cphotoconservation@cpc-moor.com

www.cpc-moor.com/

Mar 20-23, 2017. *Preventive Conservation of Photographic Materials*

May 22-25, 2017. *Identification of Photographic Processes*

May 15-19, 2017. *Rediscovering Historic Photographic Processes*

Cultural Heritage Imaging

2325 3rd Street, Ste. 323

San Francisco, CA 94107

E-mail: training@c-h-i.org

<http://culturalheritageimaging.org/>

Apr 4-7, 2017. *Photogrammetry training* (Yale University)

May 8-11, 2017. *Photogrammetry training* (University of Texas)

Sep 12-15, 2017. *Photogrammetry training* (Museum Conservation Institute – Smithsonian Institution)

Oct 17-20, 2017. *Photogrammetry training* (San Francisco Museum of Modern Art, San Francisco, CA)

The Getty Conservation Institute

1200 Getty Center Drive, Suite 700

Los Angeles, CA, 90049-1684 USA

Tel: +1 (310) 440-7325

E-mail: gciweb@getty.edu

www.getty.edu/conservation/about/education/

Mar-Dec, 2017. *Managing Collection*

Environments: Preserving Collections in the Age of Sustainability (online)

May 15-19, 2017. *Recent Advances in Characterizing Asian Lacques* (XRF Boot Camp for Conservators (Rijkmuseum))

Hornemann Institute

Kardinal-Bertram-Strasse 36
31134 Hildesheim
Germany
Tel: +49 5121 408174
www.hornemann-institut.de

Apr 24–Jun 25, 2017. *Restoration Theories and Methods from 1945 to Present Day*

The Institute of Conservation

Unit 3.G.2, The Leathermarket
Weston Street
London SE1 3ER UK
Tel: +44 020 3142 6799
E-mail: admin@icon.org.uk
http://icon.org.uk/

Nov 14–16, 2016. *Gilding (London, UK)*

Nov 17, 2016. *Bodleian Libraries and Hyperspectral Imaging (Oxford, UK)*

International Academic Projects

1 Birdcage Walk, London, SW1H 9JJ, UK
Tel: (44) 207 380 0800
E-mail: info@academicprojects.co.uk
www.academicprojects.co.uk

Jan 1–Apr 30 2017. *Chemistry for Conservators (Correspondence Course)*

International Institute for Restoration and Preservation Studies

203 Seventh Avenue
Brooklyn, NY 11215 USA
US Tel: +1 (718) 768-3508 (Sep to May)
Italy Tel: +39 (342) 692-1504 (May to Sep)
E-mail: mcardillo@iirpsemail.org (academic information, or pwitthers@iirpsemail.org for application information
www.sangeministudies.org

May 29–Jun 23, 2017. Session 1

Program A – Touching the Stones: Restoration and Analysis of Historic Buildings
Program B – Restoration and Analysis of Archaeological Ceramics
Program C – The Craft of Making and Restoring Book Bindings

Jun 24–Jul 7, 2017. Intersession

Field Trip 1 – Athens: Heritage and Modernity, Greece

Jun 25–Jul 4, 2017. Intersession

Field Trip 2 – Preservation Tour: Siena, Florence and Rome

Jul 10–Aug 4, 2017. Session 2

Program D – Paper Restoration in Books and Archival Documents
Program E – Traditional Painting: Materials, Methods and Art Restoration Issues

The Leather Conservation Centre 16

University Campus
Boughton Green Road
Northampton, NN2 7AN UK
E-mail: lcc@northampton.ac.uk
www.leatherconservation.org

Jun 26–30, 2017. *Understanding Leather – From Tannery to Collection (Northampton, UK)*

Leon Levy Foundation Centre for Conservation Studies at Nagaur

Attn: Sreekumar Menon, Program Manager
Nagaur Fort
Rajasthan, RJ 341001, India
E-mail: llfcnagaur@gmail.com
http://conservation-studies-nagaur.org

2017 Courses

-Principles of Conservation
-Condition Assessment with Technical Imaging
-Assessing Materials for Conservation
-Environmental Assessment and Monitoring
-Multispectral Imaging
-Biodeterioration and Control

Museum Study, LLC

3108 36th Avenue S.
Minneapolis, MN 55406 USA
Tel: +1 (612) 790-1645
E-mail: contact@museumstudy.com;
bradbredheft@museumstudy.com
www.museumstudy.com/

Feb 6, 2017. *Grants for Museums and Historic Sites*

Feb 6, 2017. *Building A Stronger Organization Through Advocacy*

Feb 6, 2017. *Managing Previously Unmanaged Collections*

Feb 13, 2017. *AASLH Basics of Archives*

Mar 6, 2017. *Materials for Exhibit, Moving, and Storage*

Mar 6, 2017. *Evaluating Interpretive Exhibits*
Apr 3, 2017. *Assessing Risk to Cultural Property 1*

Apr 3, 2017. *Introduction to Integrated Pest Management*

Apr 3, 2017. *Moving Museum Collections*

Apr 10, 2017. *AASLH Project Management for History Professionals*

May 1, 2017. *Storage Techniques*

May 1, 2017. *Policies for Managing Collections*
May 1, 2017. *Interpretive Planning for Historic Homes and Gardens*

May 22, 2017. *AASLH Basics of Archives*

Jun 5, 2017. *Emergency Preparedness*

Jun 5, 2017. *Social Relevance: Environmental Sustainability in Museums*

Jul 3, 2017. *Introduction to Heritage Interpretation*

Jul 3, 2017. *Keeping Historic Houses & Museums Clean*

Jul 10, 2017. *Salvage & Recovery of Cultural Heritage Collections*

Aug 7, 2017. *Laws and Collections Management*

Sep 4, 2017. *Introduction to Natural History Collections*

Sep 4, 2017. *Planning and Presenting Live Interpretive Programs*

Oct 2, 2017. *Assessing Risk to Cultural Property 2*

Nov 6, 2017. *Interpretive Writing*

Nov 6, 2017. *Integrated Pest Management: The Plan and Implementation*

Nov 6, 2017. *Care & Management for Archives and Works on Paper*

Nov 15, 2017. *AASLH Basics of Archives*

Northeast Document Conservation Center

100 Brickstone Square
Andover, MA 01810 USA
Tel: +1 (978) 470-1010
E-mail: info@nedcc.org
www.nedcc.org

Webinars 2017:

Feb 8, 2017. *Environmental Monitoring*

Feb 15, 2017. *Caring for Architectural Records*

Feb 21, 2017. *Assessing Your Digital Preservation Readiness*

Mar 1, 2017. *Writing Your Preservation Assistance Grant*

Mar 3, 2017. *Writing Your Preservation Assistance Grant*

Mar 21, 2017. *Funding and Fundraising*

Mar 28, 2017. *Moving and Renovating: Collection Concerns*

Apr 4, 2017. *Caring for Digital Media*

Apr 25, 2017. *What is Preservation?*

Apr 26, 2017. *Assessing Your Preservation Practices*

Apr 27, 2017. *Writing a Preservation Plan*

May 9, 2017. *Coping with Pests and Mold*

May 16, 2017. *Creating Useful Digital Objects*

May 23, 2017. *Caring for Scrapbooks*

May 24, 2017. *Digitizing Scrapbooks*

Jun 1–Aug 24, 2017. *Preservation 101 Course*

(10 sessions)

Society for the Protection of Ancient Buildings

7 Spital Square
London, E1 6DY UK
Tel: +44 020 7377 1644
Fax: +44 020 7247 5296
E-mail: education@spab.org.uk
www.spab.org.uk/

Jan 25, 2017. *Construction and Performance of Traditional Building (London, UK)*

Feb 2, 2017. *Building Conservation Philosophy and the SPAB Approach (London, UK)*

Feb 23, 2017. *Dealing with Damp in Old Buildings (London, UK)*

Mar 2, 2017. *Understanding Historic (UK) Building Legislation (London, UK)*

May 6–7, 2017. *Repair and Energy Efficiency (York, UK)*

May 8–12, 2017. *Repair of Old Buildings Course: An Introduction to the SPAB Conservation Approach (London, UK)*

AIC

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American Institute for Conservation
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West Dean College

Conservation Short Course Organizer

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West Sussex PO18 0QZ UK

DDI: +44 1243 818219

E-mail: cpd@westdean.org.uk

www.westdean.org.uk/BCM or

www.westdean.org.uk/OMC

2017 Conservation Short Courses:

Jan 30-Feb 2, 2017. *Specifying Conservation Works*

Feb 6-9, 2017. *Architectural and Structural Metalwork*

Feb 20-23, 2017. *Conservation of Transport*

Feb 27-Mar 2, 2017. *Conservation of Plastics*

Mar 6-9, 2017. *Filling and retouching of three-dimensional objects*

Mar 27-30, 2017. *Masonry Ruins*

Apr 3-6, 2017. *Structural Repair*

Apr 24-27, 2017. *Slate and Stone Roofing*

May 8-11, 2017. *Timber*

May 22-25, 2017. *Brick and Flint Masonry*

May 30-Jun 2. *Plasters and Renders*

Jun 5-8, 2017. *Conservation of Arms and Armour*

Jun 12-15, 2017. *Historic Concrete*

Jul 10-13, 2017. *Environment: Effective monitoring and management*

Sep 18-21, 2017. *Conservation of Botanical Collections*

Sep 25-28, 2017. *Stone Masonry*

**Open Positions,
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